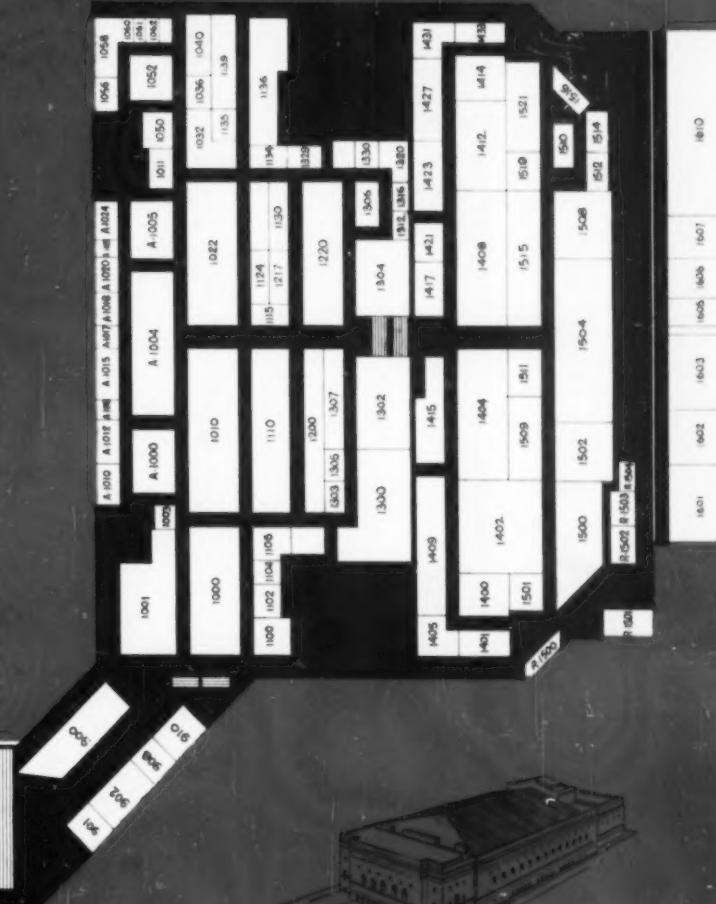
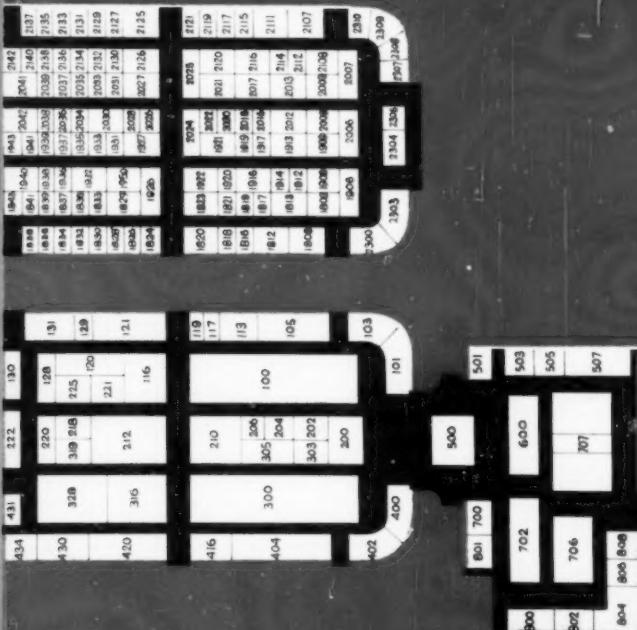


MATERIAL HANDLING ILLUSTRATED

IN THIS ISSUE ...

- Why Store on Conveyors? / 16
- Make Your Part-Time Handling More Efficient / 18
- Selecting Corrugated Containers / 23
- What's New in Equipment / 6
- What's New in Useful Literature / 24



1959 MHI EXPOSITION

JUNE 9-12 CLEVELAND, OHIO—Details on page 12

PUBLISHED BY INDUSTRIAL PUBLISHING CORPORATION

**The Mass Circulation Magazine
for the Material Handling Market**

PERIODICALS NO. 266
Coverland, Out
PAID
U. S. Postage
SULK STATE

New

2,000-LB LIFT TRUCK

NOW AVAILABLE WITH PNEUMATIC TIRES

Now "HEFTY" is on air



"Hefty," the New Allis-Chalmers FT-20 lift truck, is now available as Model FTP-20 with pneumatic tires. Now "Hefty" is outstanding in his class on yard work, over rough terrain and in areas where pneumatic tires are preferred.

**Allis-Chalmers
FTP20-24**



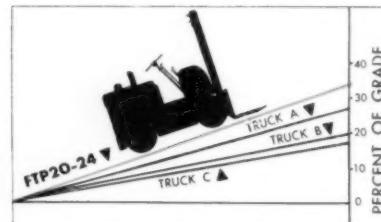
Put the new FTP-20 to work in and around your plant and compare it for high output and low maintenance. See your Allis-Chalmers material handling dealer. Send for special new Bulletin BU-493. Allis-Chalmers, Milwaukee 1, Wisconsin.

Look how "Hefty" measures up on performance features that count:

Plenty of Power — Heavy-duty industrial engine has 35 hp, 97 ft-lb of torque — most available in a truck this size.

Easily Maneuverable — makes right angle turns in aisles as narrow as 83½ in., plus load.

Stable, climbs 34% grade with load — further evidence of power, torque and stability . . . further proof of superiority.



The FTP20-24 climbs a 34% grade with load.

Lasting Performance. Owners of Allis-Chalmers FT series lift trucks have learned to measure life expectancy of their machines with a new, longer yardstick. "Hefty" is no exception. Further, stripping for routine service takes only 22 seconds . . . disassembly for overhaul less than half an hour.

BH-102



ALLIS-CHALMERS

Circle No. 1 on Reader Service Card



MATERIAL HANDLING ILLUSTRATED

New

2,000-LB LIFT TRUCK

NOW AVAILABLE WITH PNEUMATIC TIRES

Now "HEFTY" is on air



"Hefty," the New Allis-Chalmers FT-20 lift truck, is now available as Model FTP-20 with pneumatic tires. Now "Hefty" is outstanding in his class on yard work, over rough terrain and in areas where pneumatic tires are preferred.

Allis-Chalmers FTP20-24



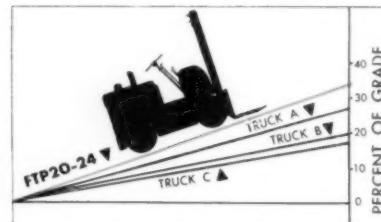
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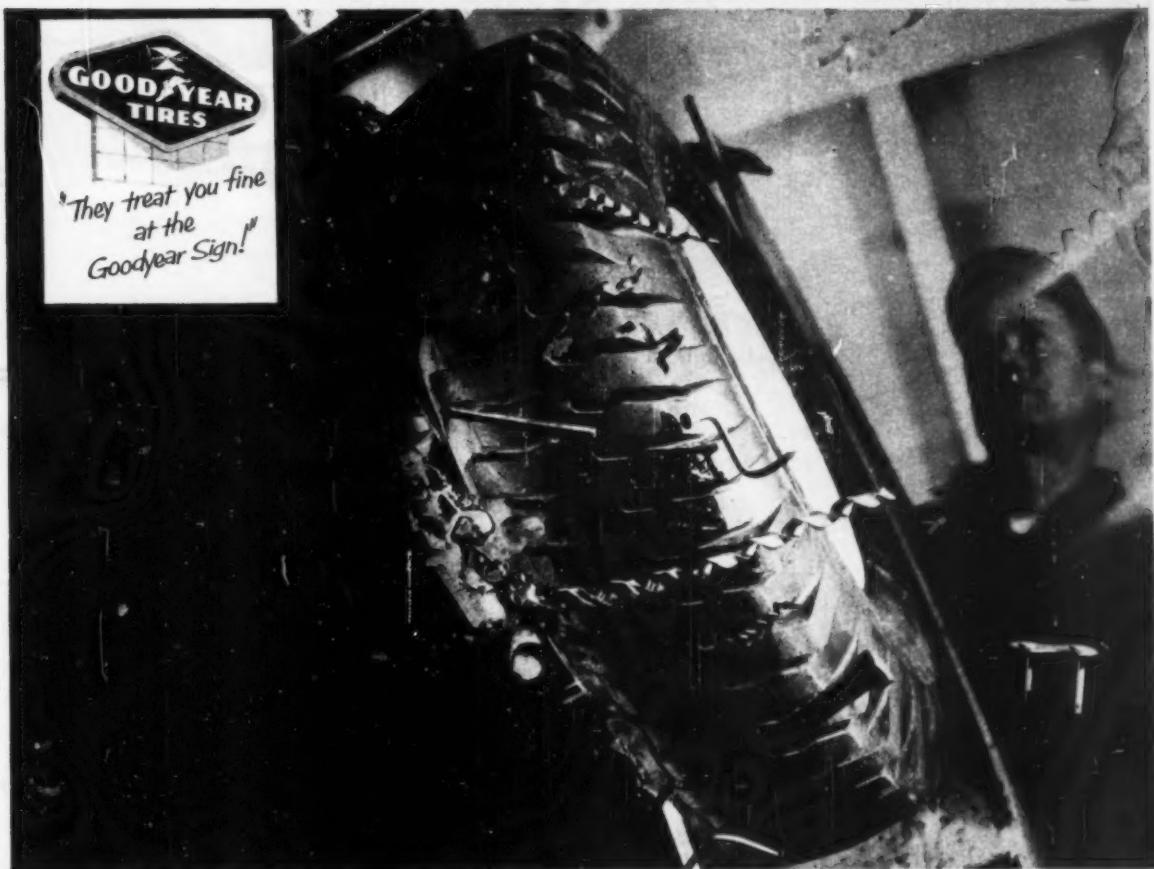
ALLIS-CHALMERS

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Plan
to stay
ahead...
MODERNIZE!

MATERIAL HANDLING ILLUSTRATED

New STEEL GUARD Industrial Pneumatic Tire from Goodyear—a rugged performer from any angle!



NEW PERSPECTIVE ON "PNEUMATICS"

We put this industrial truck "on glass" to give you the clearest possible view of the amazing new STEEL GUARD Tire in action.

This unusual photo illustrates—in a striking way—*three important points* that may well change your entire viewpoint on pneumatic industrial tires:

1 Notice how the STEEL GUARD rolls right over sharp objects that would puncture other tires. The reason: a rubber-embedded barrier of steel cables locked firmly in place between plies—even reaching across the shoulders of the tire.

2 Next, look at the rugged lugs on this STEEL GUARD. They provide extra traction and impact resistance on

roughest surfaces (even brickyards and foundry floors).

3 Look now at the sidewall of this STEEL GUARD. Yes, this is a *pneumatic* tire with all the smoothness, stability and flotation of the finest pneumatic tires—yet able to operate in areas where tires of this type failed prematurely before.

Why not let your Goodyear Dealer give you a new slant on pneumatic industrials—and STEEL GUARD—today. Or write Goodyear, Industrial Tire Sales, Akron 16, Ohio.



Bringing new economies to modern materials handling—

INDUSTRIAL TIRES BY

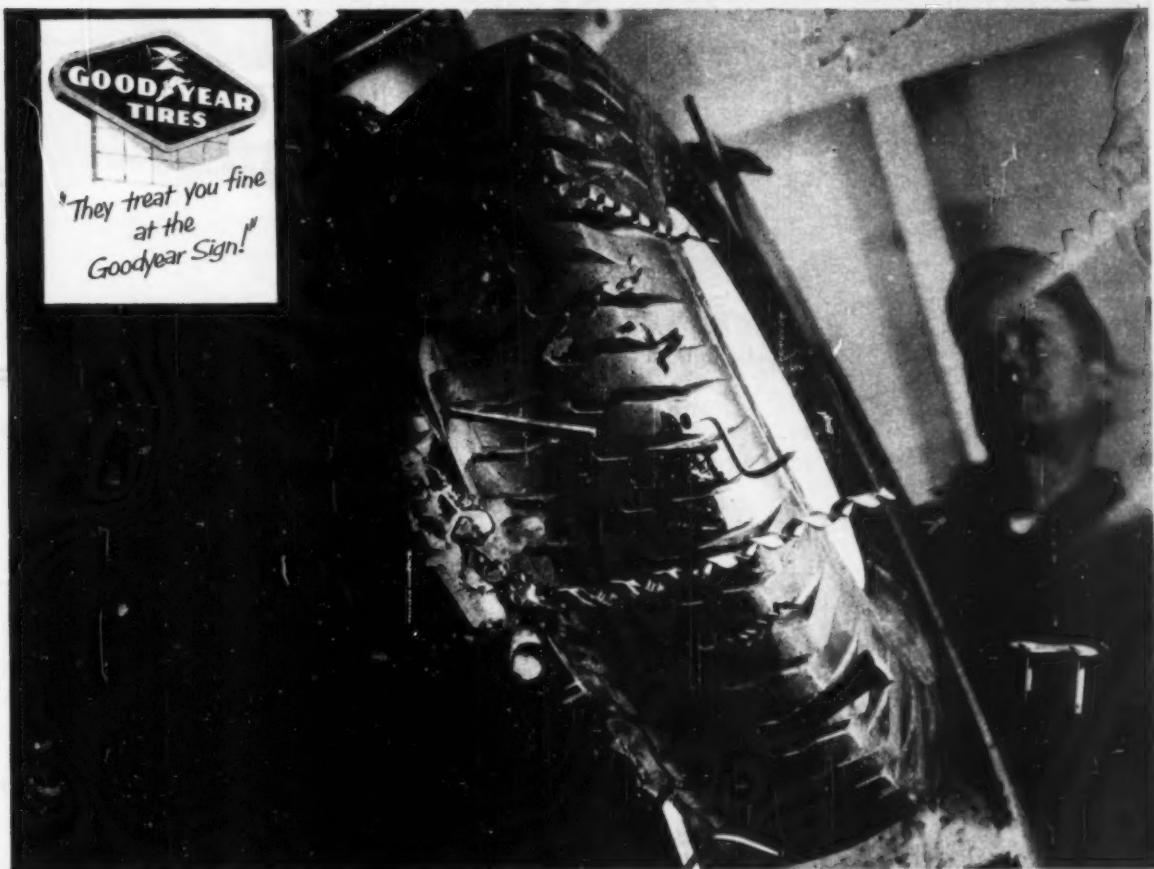
GOOD YEAR

MORE TONS ARE HAULED ON GOODYEAR TRUCK TIRES THAN ON ANY OTHER KIND

Circle No. 2 on Reader Service Card

Steel Guard—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

New STEEL GUARD Industrial Pneumatic Tire from Goodyear—a rugged performer from any angle!



NEW PERSPECTIVE ON "PNEUMATICS"

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Steel Guard—T. M. The Goodyear Tire & Rubber Company, Akron, Ohio

In Ramps... WHAT'S THE MEANING OF *Lifetime?*

Exactly what it says! EIW Ramps are built of STEEL for guaranteed STRENGTH and DURABILITY. Since 1907, EIW products have been engineered by materials handling experts to give safe, long, trouble free service.



"ONE MAN" BRIDGE RAMP

15,000 lbs. capacity. Use between railroad car and platform. Transported and positioned by fork truck.

"STAR" HAND TRUCK RAMP

2,000 lbs. capacity.

"MASTER" MEDIUM HAND TRUCK RAMP

4,000 lbs. capacity.

"REFRIGERATOR" CAR RAMP

15,000 lbs. capacity.



MOTOR and TRAILER TRUCK RAMPS

For use with fork and pallet type trucks at platform or dock. Capacities up to 15,000 lbs.



NEW! YARD RAMP

A safe, steel "bridge on wheels." Easily rolled to any part of yard. 15,000 lbs. capacity.

Write for new Literature and Specifications

ELIZABETH IRON WORKS INC.

Materials Handling Specialists, Steel Fabricators, SINCE 1907
538 Green Lane, Union, N. J.

Circle No. 3 on Reader Service Card

HANDLING HIGHLIGHTS

Hoisting System

For information on a two-way team that spots loads easily and safely write for bulletin 86-1 (hoists and bulletin 87-1 (describing a powered unit that moves hoist and travelling bridge) from Gardner-Denver Co.

Circle No. 37 on Reader Service Card

Pneumatic Tires

The Goodyear Steel Guard Tire rolls right over sharp objects that would puncture other tires. A rubber-embedded barrier of steel cables locked in place between plies provides the protection.

Circle No. 2 on Reader Service Card

Chains for Conveying, Elevating, and Power Transmission

Malleable chains that are run in, limbered, and triple-tested are provided by Moline Malleable Iron Co.

Circle No. 11 on Reader Service Card

Roller Conveyor Line

Catalog 158 from Mathews Conveyer Co. covers a complete roller conveyor line. Rollers range from 1½ to 6½ inches in diameter, and capacities are from 60 to 13,000 pounds.

Circle No. 41 on Reader Service Card

Solid Rubber Tires

To cut tire replacement costs, The Monarch Rubber Co. says to specify the tire according to the vehicle, loads, and normal operating conditions; avoid standing loads and overloads; keep floors clean; and inspect tires daily.

Circle No. 74 on Reader Service Card

Drum Handling Truck

You can pick up a 1000 pound load and balance it with one finger with the Model 150-R truck. For details ask Morse Manufacturing Co.

Circle No. 28 on Reader Service Card

Battery Chargers

With Hobart chargers you have a motor generator designed specifically for the battery it is to charge. It's fully automatic—when the required amount of charge is reached it shuts off—there is never any danger of overcharging.

Circle No. 42 on Reader Service Card

Trough Belt Conveyors

Permanent and portable conveyors for horizontal or incline operation are described in bulletin 105. These New London Engineering Co. models will elevate sand, gravel, dirt, cement, quartzite, taconite, slag, fertilizer, cinders, concrete pipe, shingles, lumber, rolled

CM
Lodestar®
electric hoist

now...
important
new models



GREATER SELECTION...from a complete range of capacities and speeds...1/8 to 2 tons and 8 to 60 fpm.

Here's your opportunity to slash lifting and handling costs. Put these new Lodestars to work where their increased speeds and capacity match your maximum requirements.

LODESTAR FEATURES INCLUDE:

- Safe, Heavy Duty Performance
- Lowest Headroom
- Push Button Control
- Fully Enclosed Components
- Self-Adjusting Magnetic Brake
- Ultra-Modern Electric Braking
- CM-ALLOY Flexible Link Chain
- Minimum-Maintenance Operation
- Lifetime Lubrication

Request catalog and name of local stocking distributor.

CHISHOLM-MOORE HOIST DIVISION
Columbus McKinnon Chain Corporation
TONAWANDA, N.Y.

NEW YORK • CHICAGO • CLEVELAND

In Canada:

McKinnon Columbus Chain Ltd.,
St. Catharines, Ont.

CM
HOISTS

Circle No. 4 on Reader Service Card

new!

AIM

BRAND

slotted angle



faster-framing • precision-quality • 100% reusable

This versatile new Acme Steel framing metal brings amazing ease and economy to building durable structures and equipment. Its pattern makes it ideal. Scientifically spaced slot-and-round-hole pattern simplifies assembly. Friction-Joints can be made by bolting through slots when speed and convenience are most important. For maximum strength, bolting through round

holes forms a Lock-Joint that just won't budge. Structural bolts with a 2000-pound safe load capacity can be applied with a hand or power wrench. Just plan, measure, cut and bolt.

AIM Brand Slotted Angle is cold-rolled galvanized steel for dependable strength and rigidity. 10 or 12 foot lengths come in packages of 10 pieces with bolts and nuts.

Available in two sizes: Standard 225-80 (2 $\frac{1}{4}$ " x 1 $\frac{1}{2}$ " x .080") and Heavy-duty 300-104 (3" x 1 $\frac{1}{2}$ " x .104").

FREE! Get ideas from the AIM Brand Slotted Angle brochure for fixtures and equipment you can build with less material, fewer man-hours. Write Dept. FED-49, Fabricated Materials Division, Acme Steel Company, Chicago 27, Ill.



AIM Brand Slotted Angle



Circle No. 5 on Reader Service Card

GET ALL THE FACTS FROM YOUR DEALER NOW!
or write Greer Hydraulics, Inc., Jamaica 30, New York
DISTRIBUTORS: Desirable Territories are Available
Circle No. 6 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

VOL. 8 No. 2

SPRING, 1959



published quarterly by
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LESTER P. AURBACH, executive vice president
EDWIN M. JOSEPH, E. J. HEXTOR, LEE HAAS, vice presidents

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HANDLING HIGHLIGHTS

Continued from page 2

roofing, insulation, tile, salt, vegetables, grain, refuse, animal food pellets, and chemicals.

Circle No. 66 on Reader Service Card

Walkies

For walkies models of fork, outrigger, low lift platform, and pallet trucks and towing tractors ask for the Moto-Truc Co.'s general catalog.

Circle No. 52 on Reader Service Card

Save on Labeling Costs

Time savings of 30 percent and more are possible with Potdevin Machine Co.'s label paster. It comes in 6, 8½, 12, and 18 inch widths.

Circle No. 80 on Reader Service Card

Self-Dumping Hoppers

Roura hoppers fit any standard lift truck, handle wet or dry, hot or cold bulky materials. With a flip of the latch, the hopper automatically dumps its load, rights itself, locks itself and is ready for another load. One man does the entire handling job.

Circle No. 22 on Reader Service Card

Mechanical Dock Board

The TAL Adjust-A-Dock is a mechanical dock board that operates as the truck backs. The platform adjusts to the truck bed during freight transfer. It has a capacity of 20,000 pounds. For a detailed engineering bulletin ask Rowe Methods, Inc.

Circle No. 65 on Reader Service Card

Moveable Wire Partitions

A low-cost way to set up a department, enclose areas, or change plant layout is described in bulletin P-55 from Wire and Iron Products, Inc. The bulletin covers everything you need—standard steel wire panels plus all accessories (doors, windows, top panels, bars, braces, etc.).

Circle No. 78 on Reader Service Card

Warehouse Lift Truck

The 24-volt system gives this truck faster lift and travel—and increases the variety of hydraulic attachments that can be used. Straddle and Extend-A-Fork models are available in 2000, 3000, and 4000 pound capacities. For more information see Yale & Towne's brochure No. 153H.

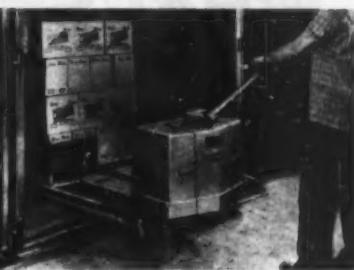
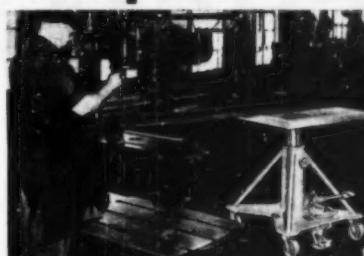
Circle No. 46 on Reader Service Card

How To Cut Storage Costs

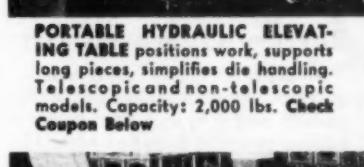
Booklet TR-11 of the Tier-Rack Corp. covers picking frames, pallet stacking frames, pallet guards, and pallet boxes.

Circle No. 36 on Reader Service Card

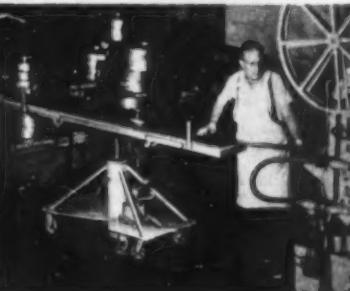
6 COST CUTTERS for warehouse and plant ...



ELECTRIC PALLET TRUCK easily maneuvers pallet loads in and out of trucks. 24 volts. Complete with batteries and charger. 4,000 lb. capacity. Check Coupon Below.



PORTABLE HYDRAULIC ELEVATING TABLE positions work, supports long pieces, simplifies die handling. Telescopic and non-telescopic models. Capacity: 2,000 lbs. Check Coupon Below



HYDRAULIC SHEET FEEDING TABLE raises sheets, strips to right working level. Results in easier, safer, faster feeding. Capacity 2,000 lbs. CHECK COUPON BELOW.



LIGHTWEIGHT HYDRAULIC PALLET TRUCK is rugged, maneuverable. Has 270° turning radius, separate lift and lower pedals. Capacity: 2,000 lbs. Check Coupon Below



ELECTRIC WALKIE STACKER tiers 2,000 lb. pallet loads 10 ft. high from 6½ ft. aisles. 24 volts. Low price, complete with charger and batteries. Check Coupon.



The RAYMOND CORPORATION

30187 Madison St., Greene, N. Y.

Send these RAYMOND bulletins to:

- Portable Elevating Table
- Lightweight Pallet Truck
- Sheet Feeding Table
- Lease rental-deferred payment plan
- Electric Pallet Truck
- Electric Walkie Stackers
- FREE 24 page Handbook

Circle No. 7 on Reader Service Card

NAME _____ TITLE _____

COMPANY _____

STREET _____

CITY _____ STATE _____

WHAT'S NEW IN EQUIPMENT

Overhead Crane Kit

The Uni-Kit is an adaptable off-the-shelf crane ready for shipment to meet emergency handling needs. The kit is available for crane assemblies up to 4000 pounds capacity and for spans up to 30 feet. The kit contains two truck frames,



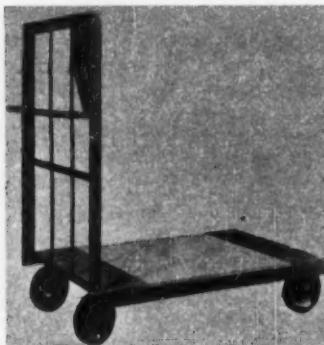
Circle No. 100 on Reader Service Card

four crane trolleys, and all bolts and fittings. The user supplies the crane beam and angle end stops, and can assemble the crane using only simple hand tools. The trolleys are adjustable to permit their use on a wide variety of runway beam sizes. The trolleys can be run on almost any existing crane runway and, in some cases, on the structural beams of the building. Trolley wheels are furnished for either tapered or flat flanged beams.

The Becker Crane & Conveyor Co.

Freight Carts

You can replace the hardwood deck of this FloorMaster Model E freight cart. All you need do is re-



Circle No. 101 on Reader Service Card

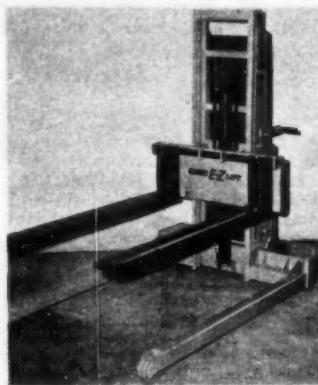
move six screws. The $\frac{7}{8}$ inch deck is completely steel-bound for protection from undue wear and tear. All carts have formed-steel deck ends for additional protection. The

carts have capacities up to 2000 pounds; use 6 or 8 inch wheels of rubber or plastic. Sealed roller bearings keep out water, dirt, and other foreign matter while retaining the lubricant. All that is needed is a purging of old, ineffective grease once a year. Deck sizes are 32 x 40 inches and 32 x 48 inches.

Lewis-Shepard Products, Inc.

Battery-Operated Lift

Model L-582 has a lifting height of 60 inches and a capacity of 3000 pounds and a 36 inch load center. Lifting power is supplied by a 12 volt industrial battery which operates a motor and hydraulic pump that forces oil under pressure into



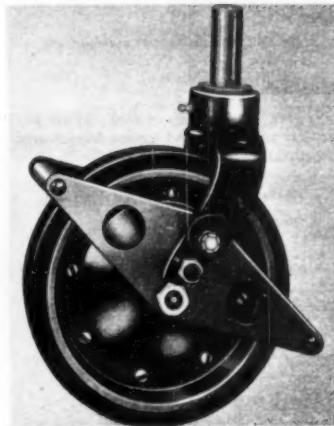
Circle No. 102 on Reader Service Card

a hydraulic lifting cylinder. You can recharge the battery simply by plugging into any 110 volt 60 cycle outlet; the lift has a built-in rectifier charger. The fork spread can be adjusted from 20 to 38 inches. The forks are 62 inches long. Overall width of the truck is 50 inches, height is 82 inches.

Crown Controls Company, Inc.

Brake-Type Caster

Here's a caster you can use outside and in places where humidity is high. It's designed for heavy work tables and jigs which must be portable and yet kept from rolling. Cadmium plating on the caster's malleable iron forks insures protection against corrosion. The caster wheel and brake are also plated.



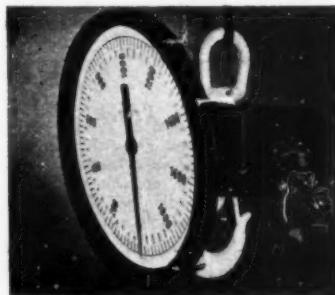
Circle No. 103 on Reader Service Card

The caster comes in 5 and 8 inch models. Load capacity ranges from 300 to 500 pounds. When the brake lever is tripped, it throws the wheel axle on a dead center with the swivel and locks the wheel against the lower end to the stem. This effectively locks the swivel as well as the wheel.

The Colson Corp.

Hydraulic Crane Scale

The SU-5 series of Sensater scales comes in capacities from 1000 to 4000 pounds. The scales have low headroom loss, only $1\frac{3}{4}$ inches, weigh only 60 pounds — yet meet the accuracy tolerances



Circle No. 104 on Reader Service Card

of the Bureau of Standards. The safety factor is five times rated capacity. A 25 percent tare adjust-

Continued on page 8

Available NOW for the FIRST TIME



STANDARD SIZE PALMER-SHILE Adjustable STORAGE RACKS

SERIES
60

Pat. App. For

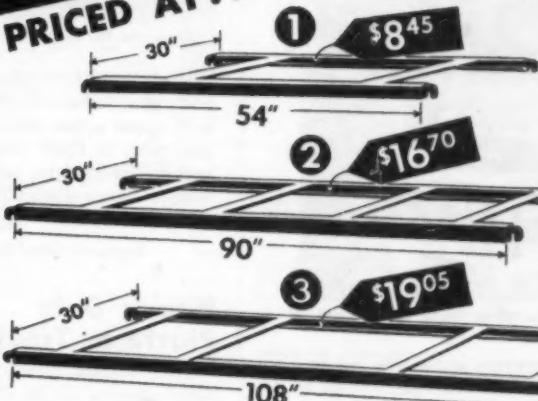
★
CAPACITY
5000 lbs.
per shelf
★

**1 STANDARD
SIZE PANEL**



**3 STANDARD SIZES
OF SHELVES**

PRICED AT ...



ONLY
2 PARTS
TO ASSEMBLE

NO SWINGING

★ IMMEDIATE DELIVERY FROM STOCK ★



Here are the three different sizes of standard shelving, adjusted to various storage openings. Note flush top of racks joined at the right.

Why wait when you have storage problems that require fast action to save you time and money? Order Palmer-Shile's new low cost P-S 60 Series standard racks. Shipment will be made to you from stock immediately after your order is received.

These new standard racks can be used for almost any plant or warehouse application, to store any kind of materials or merchandise up to capacities which cover usual storage needs.

P-S 60 racks are available in four pieces: A. The standard vertical panel, 98" high, 30" deep, 2 1/2" wide with shelves adjustable on 7" centers. B. Standard shelving of three different lengths, 54", 90" and 108", each 30" deep, to choose from to fit your specific storage requirements. Top shelf can be flush for use along entire rack surface to store items of various dimensions.

P-S standard racks can be set up by hand within a few minutes. There are no small pieces and no bolting or welding is required. You simply set up vertical panels, then snap in the adjustable shelves, for rigid, no-sway support. It's just as easy as that!

Racks are of sturdy channel steel construction for use with pallets, skids, boxes, or barrels. They can also be custom built to your specifications.



144 Old Colony Ave., BOSTON 27, Mass. Address 8-3634 • 1209 Madison Ave., BURLINGAMEN, Calif. Div. 20-0222 • 15 South Avenue Blvd., CHICAGO 44, Ill. Alpine 7-8599 • 1400 North Dearborn Dr., DENVER, Colo. AT&T 7-5255 • 289 East 200th Street, EUCLID, Ohio, IVANHOE 6-3150 • 392 Genesee Bank Bldg., FLINT, Michigan, Cedar 6-6881 • 2609 S. Broadway, FORT WAYNE, Indiana, KENMORE 5405 • 1224 No. Capitol Ave., INDIANAPOLIS 2, Indiana, McRae 2-2111 • 2000 University St., SEATTLE 22, Washington, Seattle 4-1211 • 84 W. Virginia St., MILWAUKEE 4, Wis., BRADLEY 1-9860 • 5107 Columbia Ave., ST. LOUIS 9, Mo., Prospect 1-1474 • 199 Main St., WHITE PLAINS, N. Y., White Plains 6-1354.

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DESIGNED AND MANUFACTURED BY

Palmer-Shile Co.

16047 FULLERTON AVE., DETROIT 27, MICH.
Export Division — 75 West Street, New York 6, N. Y.

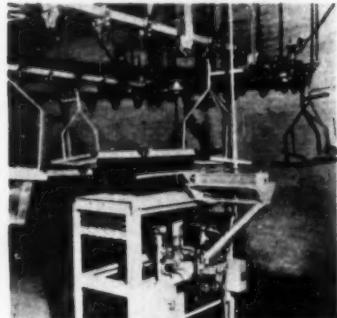
WHAT'S NEW IN EQUIPMENT

ment can be made. The scales will operate accurately under extreme conditions of dust, grit, moisture, corrosion, and impact.

Martin-Decker Corp.

Automatic Discharge

In the Cable-Way system removable tote boxes are carried in the arms of open-ended carriers. Air-operated roller conveyor sections lift the tote boxes at selected stations, allowing the carrier arms to slide free. Air-operated pushers (on signal from a limit switch) push the tote boxes onto gravity



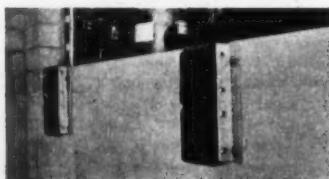
Circle No. 105 on Reader Service Card

roller conveyors at the selected stations. The discharge mechanism is operated by limit switches which are tripped by station selectors mounted on arms near the tops of the carrier.

*Carrier Division
The American MonoRail Co.*

Saves Dock Wear

Damage to both trucks and docks caused by trucks backing into dock is eliminated by this vertical bump-



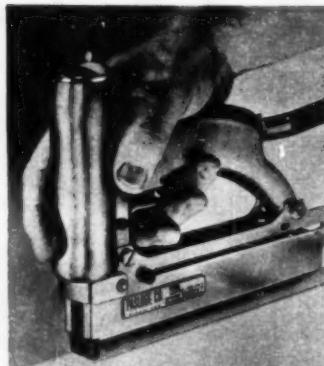
Circle No. 106 on Reader Service Card

er. It's made of rubberized fabric pads, $4\frac{1}{2}$ in. thick, 8 in. wide, and 20 to 36 in. deep. No danger of truck bumpers catching as they do with dock timbers.

Durable Mat Co.

Hand Stapler

Stapling is fast and easy with the Paslode Model AR air-powered stapler. This hand machine has two major stapling tool improvements: air return and high-speed piston. The jet-driven air return



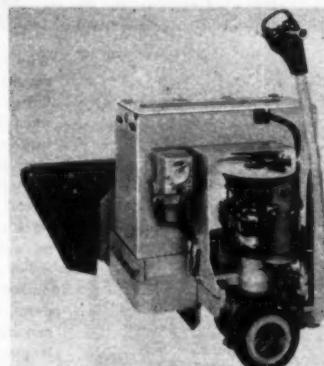
Circle No. 107 on Reader Service Card

extends tool life by eliminating the parts that fail most often. And the high speed nylon piston drives staples with a light touch, without recoil. The machine takes wide and narrow crown staples in leg lengths from $\frac{1}{8}$ inch to $\frac{3}{4}$ inch.

Signode Steel Strapping Co.

Heavy Duty Platform Truck

This electric truck can carry 8000 pounds on its 42-inch wide platform. The trail axle carries four 6×5 Formica wheels. All controls,



Circle No. 108 on Reader Service Card

including lift and lowering of platform, are located in the handle. The front hood is removed to show the accessibility of all parts. The truck is equipped with a Sangamo meter for instantly determining the state of discharge of the battery.

Lift Trucks, Inc.

Cleans Easily

Poultry and meat packing plants, food processors, textile plants—wherever conveyors must be kept clean can use this streamlined trolley and wheel combination. The one-piece trolley casting is rust-proof. Two bolts connect it to the overhead conveyor cable. The smooth, flush outer contours of the wheel eliminate dirt pockets. Sealed



Circle No. 109 on Reader Service Card

lubrication reduces the amount of grease needed for lubricating and sealing the bearing. This gives a free-running, low friction, ball bearing wheel with low conveyor pull and long life. The unit can be used on any Bush-Lock Conveyor.

The E. W. Buschman Co.

Storage Rack

This standard size adjustable rack, called the P-S 60 Series, can be ordered from stock for immediate shipment. Although of standard dimensions, they can be used for almost any plant or warehouse application to store material and



Circle No. 110 on Reader Service Card

merchandise of almost any size and weight. The adjustable shelves lock into vertical panel slots to provide desired openings for stock of different dimensions, and give the racks rigid, no-sway support. Assembly is made without bolting or welding.

Palmer-Shile Co.

Portable Air Hoist

Two lightweight, portable air hoists have been designed to be easily moved and installed by one man. The 1000 pound capacity hoist weighs 39 pounds, lifts at



Lead Lifter Series "700" Wire Rope Electric Hoists. $\frac{1}{2}$ to 15 tons. Fast, heavy-duty hoists with safe 24-volt push-button control and two automatic brakes. Two-speed models for spotting fragile loads safely. Hi-hook type available. Lug suspension and push, hand-gearred and motor-driven trolleys.



Lead Lifter Series "800" Wire Rope Electric Hoists. $\frac{1}{2}$ and 1 ton. Low headroom design. Tough, lightweight hoists that speed production. Separate load and motor brakes. Single and two-speed models with 24-volt push-button stations. Lug and hook suspension; push and motor-driven trolleys.



Budgit Electric Hoists. $\frac{1}{2}$ to 2 tons. Complete low-cost hoists delivered ready to hang up, plug in and operate. Two brakes. Operate fast. Use little current. AC, DC and 12-volt battery operated models. Container available to hold free chain out of the way.



Lead Lifter Air Hoists with wire rope load line. 1 to 15 tons. Five-cylinder motor provides smooth operation at all speeds. Speeds infinitely variable to 37 FPM, depending upon capacity. Pendant cord control. Mechanical load brake. Low headroom design. Lug, push trolley and hand-gearred trolley suspension.



Budgit Air Hoists. $\frac{1}{4}$, $\frac{1}{2}$ and 1 ton. Link and roller chain types. Explosion-proof motor cannot burn out. Spark and corrosion resistant link chain type models. Speeds infinitely variable to 75 FPM, depending upon capacity. Pendant cord control. Safety hooks standard. Rigid mount type and push trolley available.



Budgit Chain Blocks. Light, tough aluminum frames. Efficient spur gearing. 25 lb. pull on hand chain lifts 500 lbs. Fast-action load brake makes lowering easy, spotting accurate. Available with top hook or headroom saving Army Type trolley, push type or hand geared. Spark and corrosion resistant models.



Budgit Roller Chain Blocks. $\frac{1}{4}$ to 2 tons. Spur-gearing and automatic load brake enclosed in sealed housing. 45 lb. pull on hand chain lifts $\frac{1}{2}$ ton. Easy to carry, hang up and use anywhere. Accurate load spotting is a cinch.



Budgit Differential Hoists. $\frac{1}{4}$, $\frac{1}{2}$ and 1 ton. Durable, low-priced hoists for occasional use where high efficiency isn't required. Aluminum alloy yokes are light and strong, precision machined. Yoke design saves headroom.



Tugit — the Lever-Operated Hoists. $\frac{3}{4}$ to 3 tons. Spur-gearred, lightweight lifting and pulling tool you can carry around for a thousand and one jobs. Operates easily at any angle, even in close quarters. A 42-lb. pull on the handle lifts 2 tons. Spark and corrosion resistant models.



MMM Load Scale. $\frac{1}{2}$ to 2 $\frac{1}{2}$ tons. Hangs between hoist or crane hook and load. Weighs load while in suspension. Accurate to within 2/10th of 1% of full scale reading. Has 16" dial. Weighs only 42 lbs. Load limit switch available to stop hoist at present safe limit.



I-Beam Trolleys. $\frac{1}{4}$ to 20 tons. Attach to top hook of hoist to add travelability. Bearing-equipped for easy operation. Geared type available.



Budgit Cord Reel. Supplies current to hoists and mobile devices with polyphase motors up to 7 $\frac{1}{2}$ hp; single phase to $\frac{1}{2}$ hp. Cord reels in any direction but stays taut.



Budgit Conductor Cord Trolleys. Used in any number to hold cord feeding current to hoists on monorails. Also suitable to hold cords on other devices aloft.



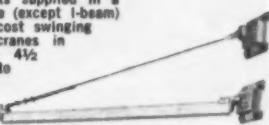
Budgit Crane Assemblies. "Build it yourself" kits to assemble hand-gearred top running bridges in capacities to 3 $\frac{1}{2}$ tons with 17 $\frac{1}{2}$ ft. spans and to 6 tons with 25 ft. spans. No machining or drilling. No special tools.



Budgit Bridge Drive. Electrically hand-operated crane bridges up to 10 tons at low cost. Easy to install. No drilling or machining. Safe 24-volt push-button control with cushion stop and start for accurate spotting. Crane travels at walking speed.



Lead Lifter Crane Components to build your own crane bridge. Capacities to 10 tons with spans to 50 feet. You buy I-beam and cross shaft locally and save on freight. All other components furnished in "package" shipment.



Budgit Jib Crane Assemblies. All components supplied in a single package (except I-beam) to build low-cost swinging bracket jib cranes in capacities to 4 $\frac{1}{2}$ tons. Easy to install without special tools.



Lead Lifter Jib Cranes. $\frac{1}{4}$ to 5 tons. Revolve smoothly through a full circle. Self-supporting. Types to bolt to the floor; other to set in concrete foundation.



Budgit Gantry "A" Frames. 1 and 2 tons. For low-cost mobile lifting service. Caster equipped. Shipped knocked down. Easy to assemble with I-beam purchased locally.

COST CUTTERS FOR YOU

These overhead load handling devices are but a cross-section of the wide variety available to help you to modernize, to enlarge present facilities or to equip a new plant.

We build overhead load handling equipment that has all the qualities essential to meet your needs for years to come. Ask your nearby Shaw-Box distributor to put his specialized knowledge to work for you. A phone call will open the way to savings in time, trouble and expense when making selections. Or, if you first want details about any of our products to guide you, write us direct.

SPR-1



OVERHEAD LOAD HANDLING EQUIPMENT

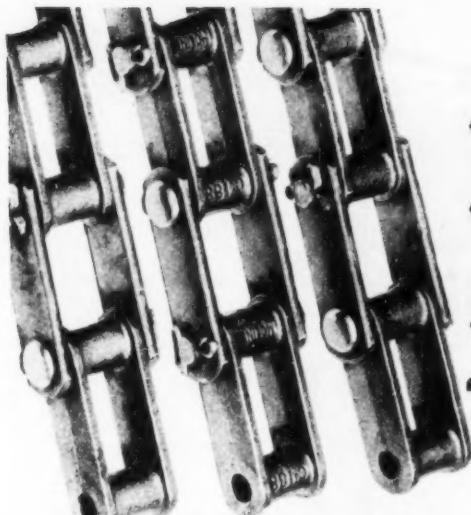
Products of

MANNING, MAXWELL & MOORE, INC.

Shaw-Box Crane & Hoist Division • Muskegon, Michigan

In Canada: Manning, Maxwell & Moore of Canada, Ltd., Galt, Ontario

Circle No. 9 on Reader Service Card



they all look alike

they all are malleableized

**they all conform to
"manufacturers' standard"**

but only Moline Chains are run in... limbered... and triple-tested!

Everybody claims high quality,
but Moline does something about it.

In the manufacture of malleable chains for conveying, elevating and power transmission, Moline established years ago a standard of quality that is unmatched in industry today. At the same time, they set up a series of quality controls—Moline's exclusive triple testing—which has extra test procedures to guarantee the ultimate in trouble-free performance and years of service life for Moline Chains.

That is why many engineering firms demand the high quality and uniformity of Moline Chains. That is why Moline has prospered as the only specialist in the manufacture of malleable chains.

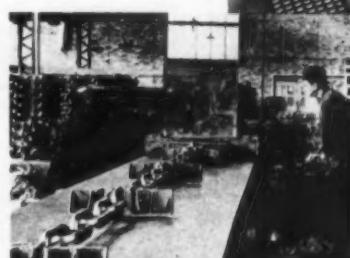
Moline invites you to visit our plant, which is the most modern and complete continuous-flow plant in the industry. Moline invites you to call our local representative listed on the adjacent page for service and proof of our claims.



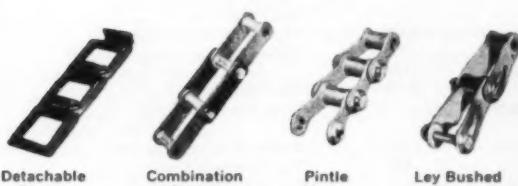
Every link is visually inspected (one at a time) and gauged by experts to rigid tolerances. Links from each heat are physically tested.



When links have been lubricated, rust proofed and assembled, the chains are "run in" on sprocket wheels and then are pitch tested.



Finally the chains are stressed to proof strength and shock tested to guarantee that Moline Chains "can take it" in the toughest operating conditions.



Detachable Chains Combination Chains Pintle Chains Ley Bushed Chains

Specializing
in the
manufacture
of chains

MOLINE DOES NOT COMPETE
WITH ITS CUSTOMERS

Leaders for
60 years

Moline Chains

for conveying, elevating and power transmission
MOLINE MALLEABLE IRON CO., St. Charles, Illinois

Circle No. 11 on Reader Service Card

This year's material handling show will be the biggest ever...nearly 250 exhibitors will display the latest in equipment for handling and distribution...more visitors than ever before will jam Cleveland's gigantic Public Auditorium for . . .



The Material Handling Institute's Exposition of 1959

DON'T TRY to browse through the MHI's Exposition in just one day. It can't be done. Not if you are to get the most out of it.

This year's show will be so big and so full of vital, new developments, that you will want to plan every detail of your visit well ahead of time.

Here are few tips that can help make your trip to Cleveland this June more profitable and more enjoyable:

1. *Plan Your Steps.* Look at a floor plan of the exposition (there is one on the front cover of this issue). Divide the show into sections to be covered each day. There are seven acres of exhibits. Aimless wandering can cause you to miss many of the important new handling ideas you came to see. And, the extra walking can be mighty

hard on your feet.

2. *Pick your spots.* No doubt, there are several exhibits that you know, ahead of time, you will want to see. Study a list of exhibitors (see below) and find those who might be of particular interest to you. Fit them into your tour of the show.

3. *Allow plenty of time.* Equipment manufacturers are sending their top design and application engineers to the show. Here's your chance to catch these men when they have nothing else to do. They are there to talk to you. Allow enough time at each booth for thorough discussions of your handling problems.

4. *Pre-register by mail.* There's little point in standing in line, with thousands of other visitors, waiting to be registered and to have

your name tag typed. Send in a pre-registration card (you can get one by circling No. 299 on the Reader Service Card in this issue) and then spend all of your time where you belong . . . talking to exhibitors.

5. *Attend the AHMS Conferences.* The American Material Handling Society will hold technical sessions on June 9, 10 and 11. They are all scheduled in the morning and will not interfere with your show visit. You can get a registration blank by circling No. 300 on the Reader Service card in this issue.

6. *Let us help you with your problems.* The editors of MATERIAL HANDLING ILLUSTRATED will be in booth 1100. We would enjoy meeting you and will be ready to serve you.

LIST OF EXHIBITORS

| EXHIBITOR | BOOTH | EXHIBITOR | BOOTH | EXHIBITOR | BOOTH |
|--|------------------------|--|------------|---|----------------------------|
| Acme Steel Company..... | 1415 | Baker Industrial Trucks..... | 1504 | Cascade Mfg. Co..... | 1061 |
| Albion Industries, Inc..... | 420 | Ballinger-Meserole Co..... | A-1013 | Chain Belt Co..... | 1813 |
| Alden Systems Co..... | 2134, 2136 | Barrett-Cravens Co..... | A-1004 | Chicago Tramrail Corp..... | 1926 |
| Alemite Div., Stewart-Warner Corp..... | 2007 | The Bassick Co..... | 202 | Chisholm-Moore Hoist Div., Columbus McKinnon Chain Corp..... | 1922 |
| Algene Marking Equipment Co..... | 1906 | Beacon Machinery, Inc..... | 2137 | Clark Door Co., Inc..... | 1931 |
| The Allen Iron & Steel Co..... | 1823 | Beam Products Mfg. Co..... | 1829 | Clark Equipment Co..... | 900, 901, 1106, 1300, 1610 |
| Allis-Chalmers Mfg. Co..... | 1010 | Benton Harbor Engineering Works, Inc..... | | Clarke Floor Machine Co..... | 2033 |
| American Chain & Cable Co., Inc..... | 910 | Benton Harbor Engineering Works, Inc..... | 1104 | The Cleveland Crane & Engineering Co..... | 100 |
| American Deck Bridge, Inc..... | 1833, 1835 | Berg-Gibson Mfg. Co..... | 103 | Clinch-Tite Corp..... | 2204 |
| American Metal Products Co..... | 1932 | Bond Foundry & Machine Co..... | 434 | Coles Cranes, Inc..... | 1501, 1606 |
| American Monorail Co..... | 1409 | Bosworth Manufacturing Co..... | 2126 | The Colson Corp..... | 210 |
| The American Pulley Co..... | 1137 | The Sharon Steel Corporation..... | 2209 | Conca Engineering Works..... | 1913 |
| Anchor Coupling Co., Inc..... | 402 | Broderick & Bascom Rope Co..... | 1908 | Continental Motors Corp..... | 1511 |
| Anchor Steel and Conveyor Co..... | 121 | Brooks & Perkins, Inc..... | 1936, 1938 | Conveyor Div., Columbus McKinnon Chain Corp..... | 2125 |
| Apex Welding & Fabricating Corp..... | 1921 | H. L. Bushman Co., Inc..... | 117 | Crescent Metal Products, Inc..... | 1316 |
| Armed Forces..... | 1830, 1832, 1834, 1836 | The E. W. Buschman Co..... | 1050 | Crown Controls Co., Inc..... | 1816 |
| Austin-Western Works..... | 1509 | C. & D. Batteries, Inc..... | 1200 | Cushman Motors..... | 2016 |
| Automatic Transportation Co..... | 1001, 600, 707 | C.I.T. Corporation..... | 1512 | Dearborn Fabricating & Engineering..... | 2131, 2133 |

For an Exposition pre-registration card circle No. 299 on Reader Service Card.
For a Conference program and registration card circle No. 300 on Reader Service Card.

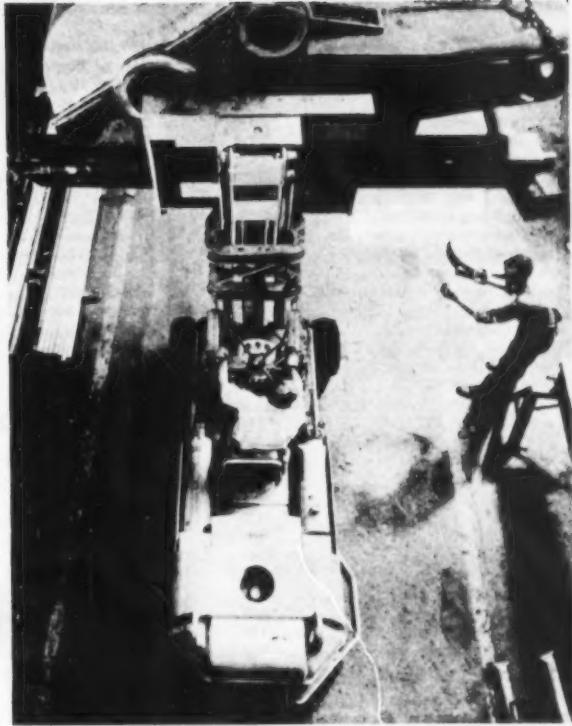
Continued on page 14

B.F.Goodrich



Pneumatic

B.F.Goodrich makes a complete range
of sizes and variety of tread designs,
including the new All-Purpose.



Solid

Which is right for you—Pressed-On Solid in
regular or Deluxe Cushion, or Vulcanized-On
Solid! What tread design! What compound?

Your B.F.Goodrich Analysis man gives you industrial tire advice . . . FREE!

Problem: There are many variables in industrial tire types, sizes, tread compounds and tread designs. Do you know which tire is right for your materials handling job?

Solution: Without cost or obligation your B.F.Goodrich Tire and Wheel Analysis man will study your equipment, loads, hauling surfaces and other special problems you have. He'll recommend the right tires for you to use—recommendations that are unbiased because B.F.Goodrich makes a *complete* line of industrial tires.

Result: You save as much as 50% on industrial tire costs, as much as 20% on maintenance costs! Mail the coupon today for your FREE B.F.Goodrich TW Analysis.

A special consulting service is available to manufacturers of materials handling equipment.

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A Division of The B.F.Goodrich Company
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I would like further information on your FREE
TW Analysis.

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COMPANY _____

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CITY _____ STATE _____ ZONE _____

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Smileage!

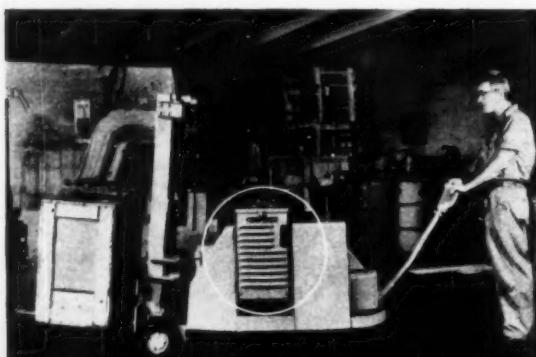
Win a Thunderbird or Cor-
vette in the B.F.Goodrich
Truck Tire Mileage Contest.
See your B.F.Goodrich
dealer for entry blanks.

B.F.Goodrich industrial tires

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LIST OF EXHIBITORS

| EXHIBITOR | BOOTH | EXHIBITOR | BOOTH | EXHIBITOR | BOOTH |
|---|------------|--------------------------------------|------------------|--|---------------|
| Doerr Electric Corporation..... | 2300 | Hercules Motors Corp..... | 1519 | F. J. Littell Machine Co..... | 2111 |
| Droft Mfg. Co..... | 1602 | Hermer Electric Co..... | 501 | Logan Co..... | 806 |
| Duff-Norton Co., Jack Division..... | 2038 | Hetrick Mfg. Co..... | 2028 | Loomis Machine Co..... | 505 |
| Duff-Norton Co. | | Hinchcliff Hardwood Lumber Co..... | 1003 | The Louden Machinery Co..... | 300 |
| Coffing-Hoist Division..... | 2042 | Hoover Ball & Bearing Co..... | 1927 | Lynch Corp..... | 2116 |
| Economy Engineering Co..... | 2208 | The Howe Scale Co..... | 1837, 1839 | M-B Corp..... | 2307 |
| Thomas A. Edison Industries | | Hughes-Keanan Div. | | MacWhitie Co..... | 2008 |
| Storage Battery Division..... | 507 | U.S. Air Conditioning Corp..... | 1062 | Magline, Inc..... | 1052 |
| Equipment Mfg. Inc..... | 2022 | The New York Air Brake Co..... | 1124 | Magnesium Co. of America..... | 2027 |
| Aurora Equipment Co..... | 2121 | Hyster Co..... | 1601, 1402, 1022 | Magnesium Service Co..... | 2138 |
| The Electric Storage Battery Co..... | 902 | Hytral Conveyor Co., Inc..... | 2117 | Manning, Maxwell & Moore, Inc..... | 1056 |
| The Elwell-Parker Electric Co..... | 1000 | Ingersoll Kalamazoo Div. | | Mansaver Industries..... | 206 |
| Ensign Carburetor Co..... | 1920 | Borg-Warner Corp..... | 1412 | Marsh Stencil Machine Co..... | 808 |
| Ericson Power Lift Trucks, Inc..... | R-1500 | Insul-B-Corp..... | 801 | Martin-Decker Corp..... | 1060 |
| Esco Products Co..... | 221 | Ironbound Box & Lumber Co., Inc..... | 1940 | Martin Engineering Co..... | 1828 |
| Essex Conveyors..... | 1916 | Island Equipment Corp..... | 1423 | Massey-Ferguson Industrial Division..... | 1841 |
| The Euclid Crane & Hoist Co..... | 101 | Jarvis & Jarvis, Inc..... | 416 | Mathews Conveyor Co..... | 1917 |
| Euclid Division, General Motors Corp..... | 1809 | Joy Mfg. Co..... | 1305 | May-Fran Engineering, Inc..... | 212 |
| Evans Products Co..... | A-1024 | The Joyce-Cridland Co..... | 1928 | Mechanical Handling Systems, Inc..... | 300 |
| The Fairbanks Co..... | 2107 | K. W. Battery Co., Inc..... | 1306 | The Mercury Mfg. Co..... | 1220 |
| Faultless Caster Corp..... | 116 | Kalamazoo Mfg. Co..... | 1032 | Metropolitan Wire Goods Corp..... | 2034 |
| Foote Bros. Gear | | Kelley Co., Inc..... | 1011 | Molded Fiber Glass Tray Co..... | 113 |
| and Machine Corp..... | 2025 | The Knickerbocker Co..... | 1431 | Morse Chain Co..... | R-1501 |
| Frommelt Industries..... | 1812 | Koehring Co..... | 1401 | Motor Generator Corp..... | 2108 |
| Gascoignes Industries, Inc..... | 2127 | LaMarche Mfg. Co..... | 431 | MOTOROLA, Communications | |
| General Box Co..... | 1937, 1939 | Lamson Mobilift Corp..... | R-1504 | & Electronics, Inc..... | 220 |
| General Electric Co..... | 404 | F. H. Langenkamp Co..... | 1824 | The Moto-Truc Co..... | 130, 131, 120 |
| Globe Hoist Co..... | 2041 | Lansing Co..... | 2026 | Chester Hoist Div. | |
| Gould-National Batteries, Inc..... | 1421 | Lathrop-Paulson Co..... | 1135 | The National Screw & Mfg. Co..... | 430 |
| Greer Hydraulics, Inc..... | 2308 | G. B. Lewis Co..... | 218, 225 | National Vulcanized Fibre Co..... | 1912 |
| Grove Mfg. Co..... | 1607 | Lewis-Shepard Products, Inc..... | 1304, 200 | National Wooden Pallet Mfrs. Assn..... | 319 |
| Hornischfeger Corp..... | 1136 | Lift Trucks, Inc..... | 105 | Nestier Corp..... | 2012 |
| Hartman Metal Fabricators, Inc..... | 804 | Link-Belt Co..... | 1502 | Nutting Truck & Caster Co..... | 1036 |
| Heifred Co..... | 1820 | Little Giant Products, Inc..... | 316 | The Ohio Galvanizing & Mfg. Co..... | 129 |



**The Most Versatile Power Unit
Ever Developed for Small Trucks**

READY-POWER BANTAM MODEL W

Only the compact new Model W provides smooth, dependable gas-electric power that can be interchanged from truck to truck. You get full-time electric power and high engine performance. Fits most trucks up to 2000 lbs. Write for information on the new Model W.



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The READY-POWER Co., 3844 GRAND RIVER AVE., DETROIT 8, MICH.
Manufacturers of Gas and Diesel Engine-Driven Generators and Air Conditioning Units; Gas and Diesel-Electric Power Units for Industrial Trucks

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CUT HANDLING COSTS . . . STOCK MORE IN LESS SPACE

**Low-Cost Flexible Stackbin System
Saves Space, Time and Labor**

Stackbin®-Stackrack® Combinations are the ideal way to minimize parts, tools, materials handling. Stackbins are portable containers, so you can carry materials throughout your process without transferring contents to any other container. Stored in Stackracks, every Stackbin is instantly accessible when it's needed. You never disturb another bin. Hopper fronts on Stackbins provide visibility and accessibility to the materials. Available in 7 sizes, Stackbin-Stackrack Combinations make most efficient use of floor space. With inexpensive Adapters any small units can be stacked on larger units. Related items can be kept in one place. Individual units lock together; no tools, no setup time needed.



WRITE FOR NEW CATALOG

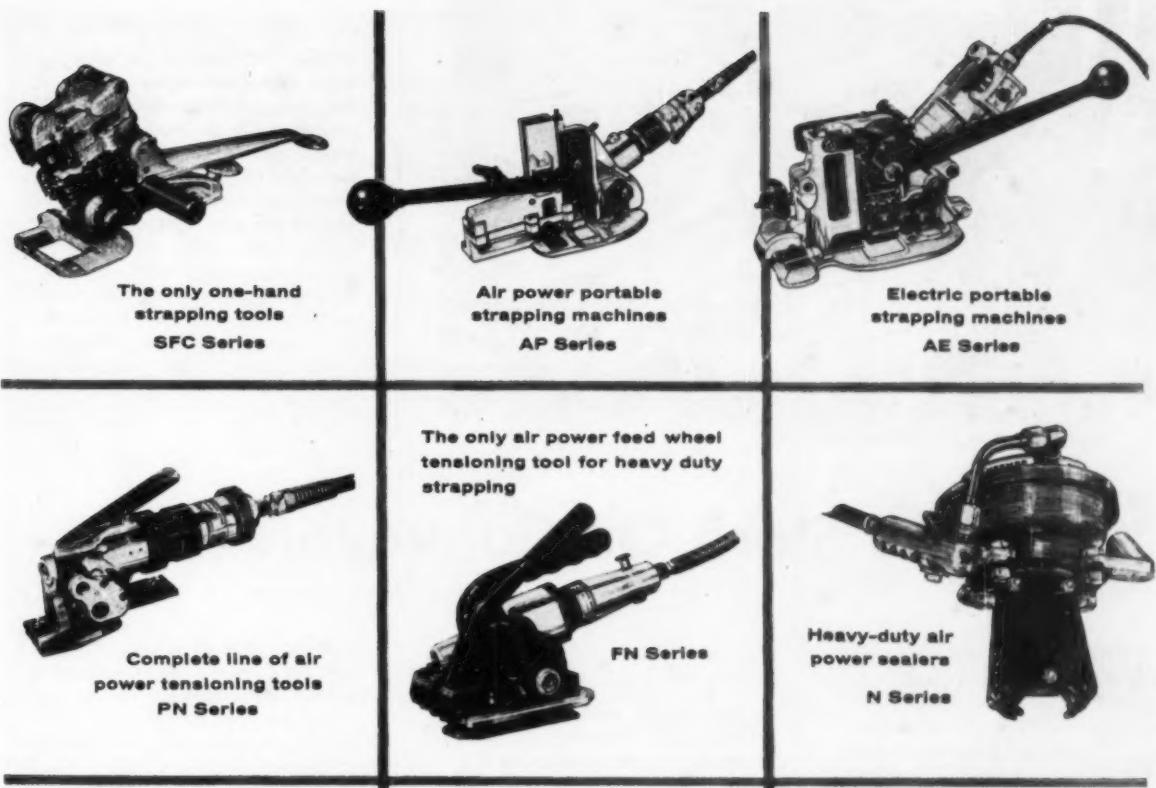
All Stackbin Products Sold Direct
STACKBIN CORPORATION
1303 Main St., Pawtucket, R.I.



Mfd. & sold in Canada exclusively by Wickware-Stackbin, Ltd., Perth.

STACKBIN SYSTEM
Stacked and Still Accessible

Circle No. 14 on Reader Service Card



Make your product cost less to handle, store, ship, and receive

Binding things together with steel strapping is a low cost way to eliminate individual handlings, save space, and prevent damage. These nine machines—part of the most complete line of equipment in the steel strapping in-

dustry—create new ways to save with strapping. Signode will be glad to help you select the right equipment and devise methods to make the most of it. There's a Signode man near you. Call him today, or write:

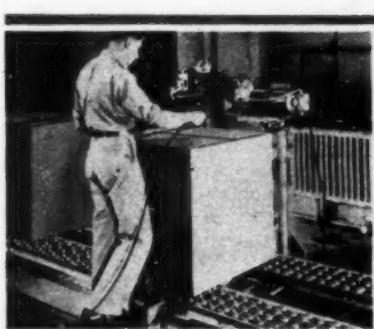


First in steel strapping

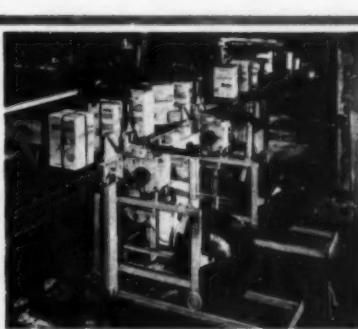
SIGNODE STEEL STRAPPING CO.

2668 N. Western Avenue, Chicago 47, Illinois

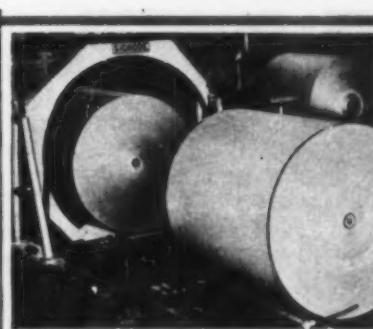
Offices Coast to Coast. Foreign Subsidiaries and Distributors World-Wide
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Power strap feeders
Model PSF



Fully automatic carton
strapping machines — Model M2N



Fully automatic roll and coil
strapping machines — Model M2ORB

Circle No. 15 on Reader Service Card



Circle No. 211 on Reader Service Card

STOCK PICKING is an easy job when conveyors bring storage to the man. Pallet loads of 2500 pounds move on the gravity feed wheel rack at controlled speeds between 10 to 20 feet a minute. Empty pallets are returned to the rear of the rack. Cases are moved to the order picker through a set of gravity wheel flow racks. As orders are picked they are placed on the conveyor line separating the two types of storage conveyors.

Why Store On Conveyors?

WHENEVER you store an item, sooner or later you must find it, select the number you need, and move it to the next operation. By storing on conveyors you can make each of these jobs easier.

New ways of storing on conveyors make it practical for companies of virtually any size. Here are a few questions that will help you to tell if live storage will help you:

1. Can you handle the items on a conveyor? On pallets?
2. Is there a variety of items?
3. Is there a reasonable quantity of each item?
4. Is there a fair amount of turnover?
5. Do you have to take many different items from storage at a time?

If you answer yes to most of these questions, chances are you

can use conveyors for storage. Here's how you'll benefit.

No wasted movement—Items will be stored close together. Other methods require much more space between different items, need more aisle space to get at the stored items, and require much more walking when selecting orders. A traffic problem is eliminated because live storage racks are filled at the other end.

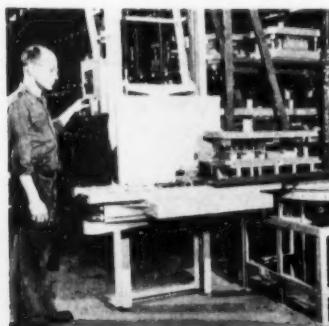
Orderliness — Racks can be indexed, just like a filing system, so practically no time is wasted in hunting items. The most called for items can be stored in the most convenient place and close together for efficiency. With live storage, items are removed in the same order they were put in. Less supervision is needed. Inventory can be taken by counting the empty spaces in the rack.

Better use of space—By putting aisle space to work and using wasted overhead space, live storage racks can often increase the usable volume of an area by 100 percent or more.

By storing on conveyors, purchased inventory can be received and placed right where it will be used. This saves one storage spot, one movement of material, and the paper work involved in the entire transaction.

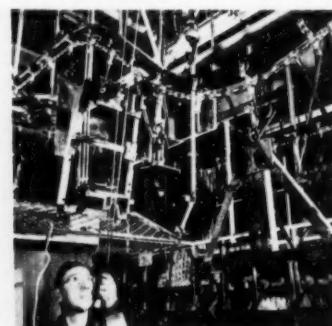
Live storage reduces your inventory to the smallest possible amount of frontal area. It also provides the same inconvenience in reaching for inventory regardless of the amount on hand.

You can make a big savings in warehousing odd-shaped, bulky items by using overhead trolley conveyor lines. The lines can dip to within a few feet of the floor for easy loading and unloading.



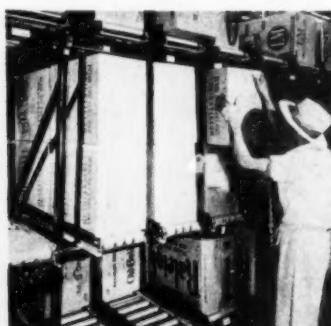
Circle No. 212 on Reader Service Card

STORING dies on conveyors eliminates manual labor, aids storage.



Circle No. 213 on Reader Service Card

INDEXED storage of welding jigs and fixtures saves space and time.



Circle No. 214 on Reader Service Card

LOADING conveyors in back reduces traffic in order picking area.



shorter turning • power-shift powerful pry-out • power-steer

Frederick Buffington, ore superintendent of Chesapeake Operating Company, says, "The Model H-25 'PAYLOADER' with its shorter turning radius, power-steer and power-shift transmission wins the battle in our heavy ore handling work. It's a faster all-around operation because of pry-out bucket action."

With its 2,500 lb. CARRY CAPACITY, the H-25 gives them 25 to 50% more capacity than previously available in a machine of this class, and shortest turning radius of 72". Power-steer and power-shift transmission with 2 speeds forward *and* reverse assures fast and easy operation. Exclusive power-transfer differential gives more positive traction, and with 4,500 lb. bucket breakout force combine to get full loads under tough digging conditions.

The "PAYLOADER" system is a flexible, economical way to handle bulk and many other materials. There is a size and type — from 2,000 to 9,000 lbs. carry capacity — and many attachments, to fit your requirements, indoors or outdoors. And there is a nearby Hough Distributor to discuss them with you.

Chesapeake Operating Company, and its parent company, Lavino Shipping Company, are large bulk ore handlers at several East Coast ports. These firms have had 8 to 9 years experience with "PAYLOADER" tractor-shovels in ships holds and on barges and docks. They now have a number of the Model H-25 units at various ports.

THE FRANK G. HOUGH CO.

765 Sunnyside Ave., Libertyville, Ill.

Send literature on all "PAYLOADER" models and the many attachments:

Name _____

Title _____

Company _____

Street _____

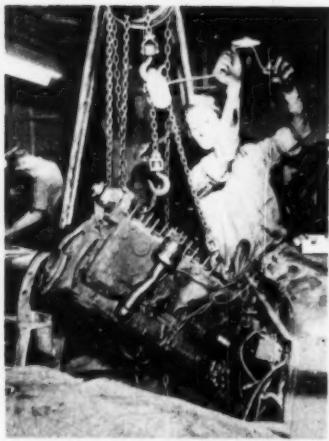
City _____

State _____

4-A-3

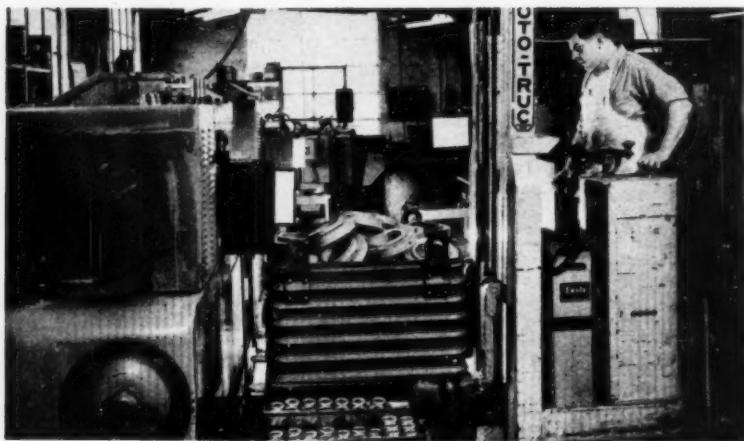


Circle No. 16 on Reader Service Card



Circle No. 215 on Reader Service Card

MAINTENANCE WORK requires part-time handling with a hoist.



Circle No. 216 on Reader Service Card

JOB SHOP HANDLING is often based on one piece of equipment. Here a narrow-aisle fork lift truck moves a skid box full of castings to storage.

Solve the intermittent load problem —

Make Your Part-Time Handling More Efficient

MANY PLANTS have the problem of handling intermittent loads. By an intermittent load we mean part-time material handling in which your equipment is not kept in constant use.

There are various methods of making intermittent handling efficient; picking the right one for your application depends on many factors. Size of the load, location of the handling job, how it fits into the overall handling system—these are things to consider in

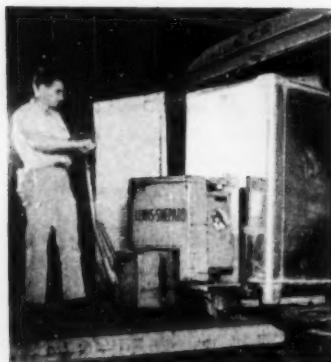
part-time handling.

Attachments to fork lift trucks have been the answer to many situations where an item of special size or shape has to be handled just once in a while. In other cases, however, it is not profitable to take the fork lift truck away from its regular work to handle the special jobs. Then a smaller, more specialized piece of equipment — work positioner, portable elevator, walkie truck, overhead hoist, etc.—might be spotted near the job, ready for

use whenever it's needed.

Scrap handling is a task that sometimes requires part-time handling equipment. Special dumping containers spotted around the plant make scrap collecting easier.

Job shops often need one piece of equipment to receive material, store it, feed it to machines, take away the finished parts, and load them onto trucks. Since job shop scheduling varies from day to day, the equipment must be ready to work at any time.



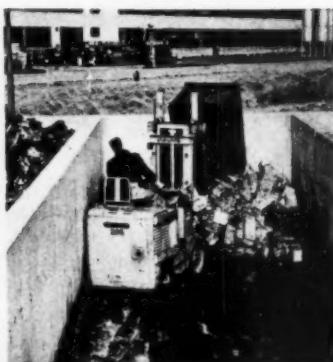
Circle No. 217 on Reader Service Card

SHIPPING is often one of many jobs performed by a walkie truck. One man can load the whole truck.



Circle No. 218 on Reader Service Card

MACHINE FEEDING is the job of this hand-powered truck which carries paper rolls to embossing.



Circle No. 219 on Reader Service Card

SCRAP HANDLING is part-time work for this fork lift truck. A self-dumping hopper carries scrap.

Rapistan®

couples ideas and products to solve handling problems

Rapistan conveyors smooth and speed the flow of goods and protect



Flow-Rack—Flows stock into reach, saves aisle space. Choice of gravity, wheel, roller or strip conveyor. Easily extended or adapted to items stored. Positions goods for fast order selection.

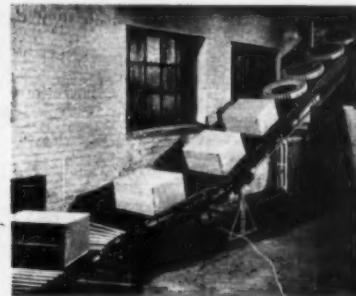


Rapid-Wheel Gravity Conveyor—Straight, curved and spur sections; portable or permanent; varied wheel patterns; steel, galvanized or light-weight aluminum.

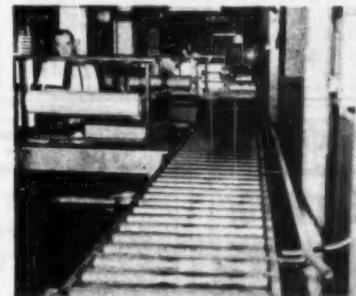


Heavy duty Horizontal Belt Conveyor—A permanently-installed unit for smooth, fast horizontal flow of heavy units, cartons, boxes, parts, crates, etc. Variety of widths and lengths.

profits while they save time, ease handling problems and maintain volume production. Whether it's retailing, manufacturing or wholesaling, business is making greater use of the flexibility and efficiency of Rapistan power units, gravity units and accessories. Rapistan combines money-saving ideas, outstanding quality of design, materials and workmanship with practical engineering of standard units.



Rapistan Inter-Floor Belt Conveyor—Relieve elevator congestion, eliminate heavy lifting and carrying with Floor-Veyor and Floor-Veyor, Jr. models for interfloor movement.



Rapistan Live-Roller Conveyor—Permits halting goods on conveyor for weighing, etc. Eases accumulation or sweep-off along the line. Exclusive pop-out safety rollers protect personnel.

New Idea Handbook Explains Coordinated Materials Handling

Walk through 70 actual installations as you leaf through this new handbook of materials handling ideas. See how combined use of many Rapistan conveyors is compounding materials handling savings in time, space and manpower. Write for your copy.



Aluminum Portable Belt Conveyor—Lightweight, adjustable, easily moved, stores vertically in small space. May be used horizontally. Perfect for stacking operations.



Rapistan Magnetic Parts Conveyor—Moves ferrous metal parts or scrap iron. Adjustable pitch. Operates in tight spaces at inclines up to 72°. Dumps to bin or hopper.



Rapistan-Keystone Overhead Trolley Conveyor—Use overhead space, simplify traffic with this unusually flexible, versatile conveyor in processing, assembly, finishing and inspection.

FREE CATALOGS

Write for prices and specifications on any item shown in this ad.

Rapistan®

Materials Handling Ideas

The RAPIDS-STANDARD CO., Inc.
581 Rapistan Bldg.
Grand Rapids 2, Michigan

Circle No. 17 on Reader Service Card

Circle No. 20 on Reader Service Card



BRIDGES THE LOADING GAP...

Safely!
Easily!



**MLM Dock Boards are LIGHTER . . .
SAFER . . . STRONGER . . . BETTER BUILT**

- Self adjusting for varying height of dock and truck bed.
- Exclusive Handholds formed with side-rails. NO CASTINGS! — NO WELDS!
- Safety-tread surfaces for maximum traction . . . minimum accidents.

LET MLM IMPROVE YOUR MATERIALS
HANDLING REQUIREMENTS

Dock Boards • Yard Ramps • Light-weight Dollies • Pallet Dollies

BUILT TO YOUR SPECIFICATIONS!

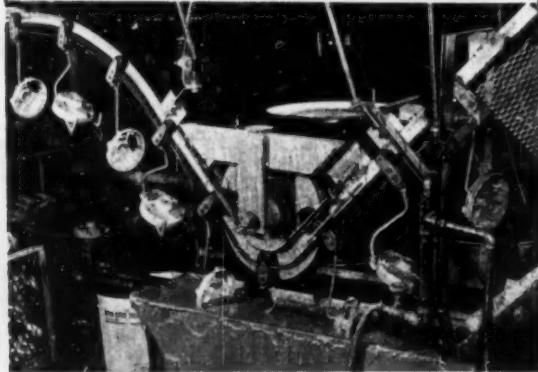
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Coloma, Michigan
Phone: HOrward 8-5041



SPACE-SAVING 45° or 60° VERTICAL DIPS
FOR PAINTING, DEGREASING, PLATING

AMERICAN "Cable-Way" Conveyor



"Cable-Way" dips and oven-dries electric motor parts

Compact quick dips are just one of many reasons why "Cable-Way" Conveyors are money-savers for metal finishing. All-bolted construction of track and hanger rods makes installation or rearrangement easy. A 180° conveyor loop can operate within a 20"-wide ceiling area (15½" dia. sprocket). Trolleys available in 80, 160, and 250 lb. capacities. Nylon wheels for corrosive conditions. Low-cost, easy to maintain. Write for Catalog CDA.



CONVEYOR DIVISION THE AMERICAN MONORAIL CO.

Fourth & Franklin Streets • Tipp City 18, Ohio

Circle No. 18 on Reader Service Card

MHI Exposition of 1959

Continued from page 14

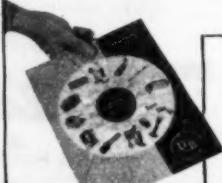
| EXHIBITOR | BOOTH | EXHIBITOR | BOOTH |
|--------------------------------------|-----------|---------------------------------|------------------------|
| Orangeville Mfg. Co. | 1808 | G. H. Tenant Co. | 1433 |
| Oxy-Catalyst, Inc. | A-1010 | Tier-Rack Corp. | 2309 |
| The Paltier Corp. | 1058 | Toledo Scale Corp. | 2307 |
| Parker Hannifin Corp. | 1510 | Tote Systems, Inc. | 1514 |
| Parker Sweeper Co. | 1819 | Towmotor Corp. | 1302, 1404, 1307 |
| The Powell Pressed Steel Co. | 706 | Tremflo Mfg., Inc. | 1826 |
| The Prime Mover Co. | 2036 | Triax Equipment | 101 |
| R & K Industrial Products, Co., Inc. | 2031 | Tri State Engineering Co. | |
| Rack Engineering Co. | A-1105 | Cartogainer Div. | 1217 |
| Rack Manufacturers Institute | 2112 | Tube-Strut Corp. | 700 |
| The Rapids-Standard Co., Inc. | 1508, 119 | The Union Metal Mfg. Co. | 1130 |
| The Raymond Corp. | 1515 | Union Asbestos and Rubber Co. | 1605 |
| The Ready-Power Co. | 1134 | United States Steel Corp. | 2202 |
| Republic Steel Corp. | 702 | Union Steel Products Co. | 500 |
| Revolver Co. | 1516 | Unistrut Products Co. | A-1020 |
| Richards-Wilcox Mfg. Co. | 1414 | United Shoe Machinery Corp. | 204 |
| Robbins & Myers, Inc. | 1405 | United States Steel Supply Div. | |
| Rotary Lift Co. | 800 | United States Steel Corp. | 2200 |
| Rowe Methods, Inc. | 2009 | Universal Hoist Co. | 2206 |
| Ruger Equipment, Inc. | 128 | Vanguard Engineering Co. | 2021 |
| J. C. Smith, Inc. | 802 | Vickers, Inc. | 1427 |
| SI Handling Systems, Inc. | 1817 | Hatfield Industries, Inc. | 2140 |
| Sage Equipment Co., Inc. | 1329 | H. S. Watson Co. | 2120 |
| Saginaw Products Corp. | 2030 | Waukesha Motor Co. | 1320 |
| The Service Recorder Co. | 2306 | Wayne Mfg. Co. | 222 |
| Signdeel Steel Strapping Co. | A-1015 | The Wayne Pump Co. | 1909 |
| Silent Hoist & Crane Co., Inc. | 1040 | John Waldron Corp. | 121 |
| Southworth Machine Co. | 2303 | Jervis B. Webb Co. | 1417 |
| Spaulding Fibre Co. | 1312 | Weber Addressing Machine Co. | 2013 |
| Springport Steel Products Co. | 1102 | West Bend Equipment Corp. | 328 |
| Stockbin Corp. | A-1018 | Westinghouse Electric Corp. | A-1000 |
| Standard Conveyor Co. | 1941 | Whiting Corp. | 1500 |
| The Stanley Works. | 1330 | Woodford Mfg. Co. | 2024 |
| Stokvis Edera & Co., Inc. | 2304 | The Yale & Towne Mfg. Co. | |
| Streator Dependable Mfg. Co., Inc. | R-1502 | Zenith Carburetor Div. | 1110, 1408, 1115, 1603 |
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ROL-FLO
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Whether you must stencil 5 cartons or 5,000 the ROL-FLO will give you uninterrupted performance.

Proper pressure on the squeezable plastic handle keeps the roller saturated and working perfectly at all times. Designed especially for those whose stenciling needs call for a greater supply of ink or where an ink pad can not be conveniently carried.

This means high speed stenciling at a saving of 50% for your production line addressing.



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SHIPPING ROOM SUPPLY CATALOG
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Circle No. 19 on Reader Service Card

Complete Technical Sessions Program

Technical Sessions will be held in conjunction with the 1959 Exposition. Here are the dates and the speakers.

Date: Tuesday, June 9

Sponsoring Society: Society for Advancement of Management

Chairman: Warren King, McGraw-Hill Publishing Co.

Speaker: Fred E. Harrell, Curtiss-Wright Corp., Marquette Div.

Chairman: Roy Rix, Cleveland Electric Illuminating Co.

Panel: Charles A. Thomas, Standard Pressed Steel Corp.

Jonathan L. Collens, Large Motor Division, Reliance Electric Engineering Co.

Ronald W. Puder, E. I. du Pont de Nemours & Co.

Date: Wednesday, June 10

Sponsoring Society: American Society of Mechanical Engineers

Chairman: A. T. Gaudreau, Gaud-Reau Associates.

Panel: M. A. Michel, Pittsburgh & Lake Erie Railroad.

Forest Weldon, Matson Navigation Co.

Chairman: Professor Byron Saunders, College of Engineering, Cornell University.

Panel: John Moskowitz, and William O'Grady, Philadelphia Electric Co.

George E. Waldron, Carling Brewing Co.

Date: Thursday, June 11

Sponsoring Society: American Material Handling Society, Inc.

Chairman: Joseph Carle, Lincoln Extension Institute.

Speaker: Norman Shaffer, Western Electric Co.

Chairman: Ralph Reiner, Cleveland Builders Supply Co.

Panel: Myron Miller, East Pittsburgh Works of Westinghouse Electric Corp.

Jack Vander Molen, Crane Co.

Thomas Wharton, Containers Laboratories, Inc.

Circle No. 22 on Reader Service Card



Self-Dumping Hoppers cut waste handling costs 50%

Here's how Flintkote Company of East Rutherford, N. J., manufacturers of roofing materials, solved waste disposal problems and cut handling costs 50%. They formerly used wheelbarrows, trundling them to the shipping dock where scrap was manually shoveled into a truck. Now they have 35 Roura Self-Dumping Hoppers located throughout the plant collecting scrap. A standard lift truck

picks up a full Hopper, takes it to the dock and raises it directly over the truck. With a flip of the latch, the Hopper automatically dumps its load, rights itself, locks itself and is ready for another load. One man does the entire handling job.

Roura Hoppers fit any standard lift truck . . . handle wet or dry, hot or cold bulky materials . . . cut costs . . . save time.

ROURA
Self-Dumping
HOPPER

WANT MORE DETAILS? Attach this coupon to your letterhead and mail to
ROURA IRON WORKS, INC.
1408 Woodland Ave., Detroit, Michigan

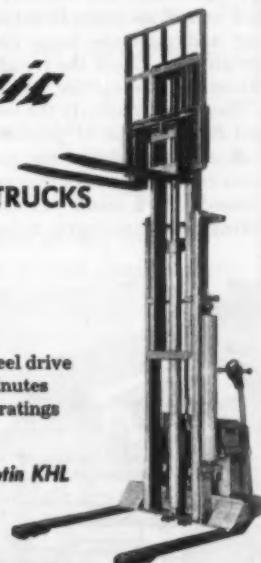
modernize with
Hydrolectric

A GREAT NAME IN LIFT TRUCKS

- Two driving wheels instead of one
- Braking with handle in any position
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- Sealed alloy gears instead of chains
- Sealed ball-bearing rollers in masts
- 100% more steering ease with two wheel drive
- Power unit removal complete in 20 minutes
- Greater tire capacity equivalent load ratings



• Write for Bulletin KHL

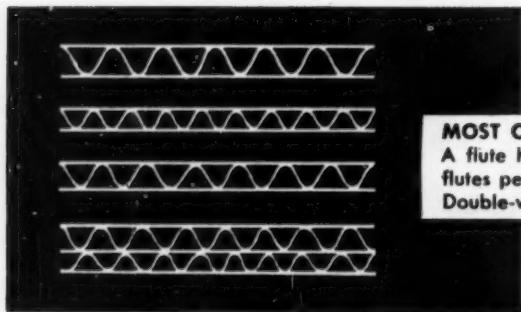


A TRUCK FOR EVERY PURPOSE AND MATERIAL

LIFT TRUCKS, INC.
CINCINNATI 14, OHIO



Circle No. 21 on Reader Service Card



MOST COMMON FLUTES. Top to bottom: A, B, C, and double-wall. The A flute has $\frac{1}{16}$ -inch arch, 36 flutes per inch. B flute has $\frac{1}{8}$ -inch arch, 50 flutes per foot. C flute, most common, has $\frac{5}{32}$ -inch arch, 42 flutes per foot. Double-wall can be any combination. Triple-wall board is also available.

Selecting Corrugated Containers

Things you should know about the most widely used of all container materials

MANY PEOPLE THINK the heaviest corrugated container is the best to use because it gives the most protection. But it's not that simple. Unless, of course, cost doesn't matter. The truth is that any container that protects too much or too little is wasting money. And there are many other things you have to consider besides protection rendered.

What Test Corrugated:

Strength of corrugated is measured by *test*. That's the industry's standard unit of measure, based on bursting and puncture tests, caliper, weight, etc. Check the freight regulations for the carrier you're using. They usually specify the test required for any type of product.

Corrugated manufacturers are constantly coming up with stronger, better boards. As a result you can use corrugated containers today

for many applications where they weren't safe in the past. For example, there are waterproof corrugates that hold up under moisture.

Which Flute Is Best?

The flutes are the backbone of corrugated board. They absorb and distribute shock, provide extra cushioning and insulation.

There are three basic flutes: A, B, and C (see chart above). The A flute is thickest. It's used mostly for fragile articles because its high arch gives excellent cushioning and stacking strength. The B flute is thinnest, takes up less car and warehouse space. It's good for heavy items like canned goods, which support their own weight. The C flute is half way between A and B, combines the best features of both. It's probably the most commonly used today. There are also many double and triple-wall

combinations for special uses.

Construction:

Corrugated boxes come in enough different construction styles to confuse even the experts. Which one should you use?

That question is best answered by your supplier. Give him a sample of your product. Tell him where it's going, how it's going, and how it will be handled. The right design can save you a lot of headaches.

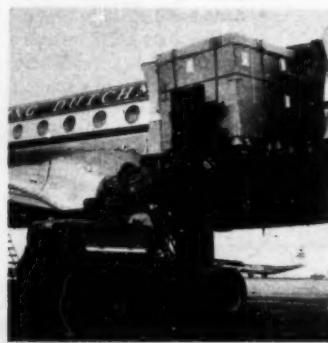
What About Size?

You may not have much to say about the size of your container. Size of product and freight regulations may decide for you. It's easy to figure size when large products are packed one to a container. Just let the product be your guide. Smaller products packed several to a box may be governed by freight regulations. These are too complex



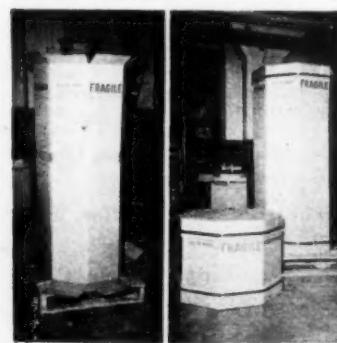
Circle No. 220 on Reader Service Card

CARTON FOR INGOTS is made of corrugated, holds 1500 pounds of nickel alloy. Foundry users dump containers and all into the furnace; there's no need to unpack them.



Circle No. 221 on Reader Service Card

HEAVY DUTY BOX is strong enough to hold furniture or machinery, yet low in tare weight. It comes with a built-in pallet base for efficient handling by lift truck.



Circle No. 222 on Reader Service Card

DRUM-TYPE CONTAINER locks shut with steel straps; another model is self-locking. It adjusts to any height. Use them for coils of wire, etc. or to hold bulk materials.

Factors to consider when you buy corrugated boxes:

1. What is the size, shape, weight, and value of the product?
2. What is its G-Factor, or the amount of impact the product can withstand?
3. How and where will the box be shipped? What type of impact is it likely to encounter, and from what type of impact does it need to be protected the most?
4. What type of handling equipment will be used?
5. How will the completed packages be stored? If they're to be stacked, how high?
6. What type of set-up, filling, and closing machinery will be used, if any?
7. How much protection against moisture and contamination does the product require?
8. What design or advertising message should the container carry?
9. What government specifications or freight regulations control the type of box for your product?

to discuss here. Check with your carrier or insurance company.

From the standpoint of material costs alone, the cheapest container to produce is one with both width and depth equal to one half the length. See page B/34 of the 1958-59 FLOW DIRECTORY for a nomogram to select the most effi-

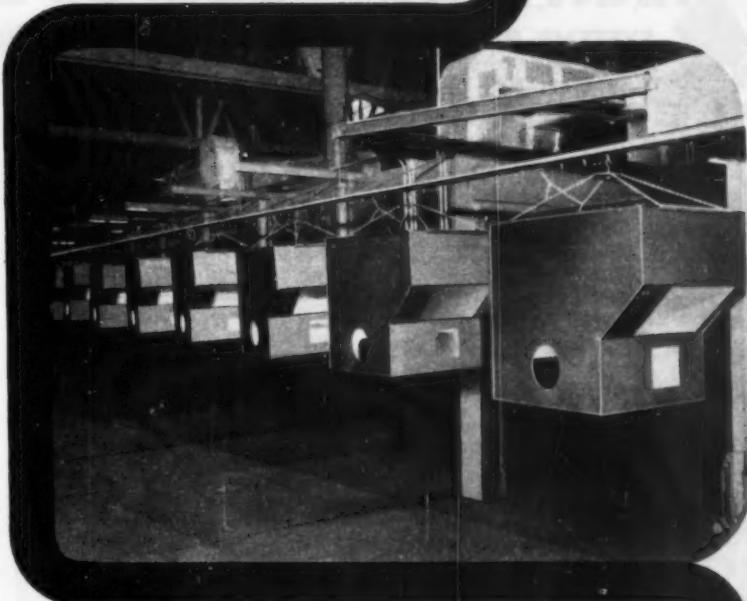
Continued on page 31



Circle No. 223 on Reader Service Card

WATERPROOF CORRUGATED is a recent development. It looks, handles like regular corrugated, keeps its shape no matter how wet it or the contents inside may get.

REDUCE MAN HOURS



BOOST PRODUCTION!

A large Western manufacturer of industrial furnaces has proven again the increased production and tangible savings made possible through automation of in-process work cycles. This fully integrated Chainveyor overhead conveyor system completely eliminates intermediate handling through spray painting and baking sequences — thus cutting overhead and increasing production.

Almost every plant operation can benefit from the unusual versatility of Chainveyor systems when applied to finishing, assembly, fabricating, inspection, and overhead storage.

For helpful suggestions and applications showing how Chainveyor can work for you, send for your special Planning Folder now! It includes: Special Illustrated Catalog, Explanatory Diagrams and Grid Sheets for Preliminary Layouts.

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CONVEYOR
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Circle No. 23 on Reader Service Card

HARTMAN



SYSTEMS PAY OFF!

FLEXIRACK

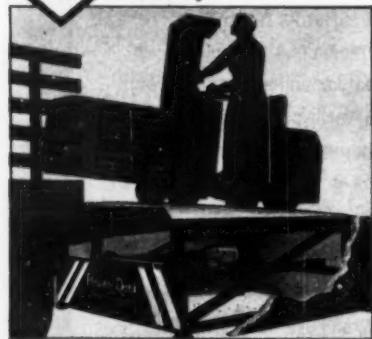
COMPLETE ADJUSTABILITY
solves storage problems.



POWER DOCK



Unique 30" in and out motion
plus 24" up and down... to
serve any type truck quickly
and safely.



BOOSTER



with Power Drive
gives big truck value
at portable lift cost. Capacity to
2000 lbs.



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City..... State.....

AT THE SHOW - BOOTH NO. 804

Circle No. 24 on Reader Service Card

WHAT'S NEW IN USEFUL LITERATURE

Good Warehouse Planning Gives Extra Space:

When a drug store business found it necessary to improve and enlarge its distribution warehouse, first emphasis was placed on an efficient system for getting goods in and out of storage. As a result, the company is saving nearly \$100,000 annually in direct labor costs. This User Report #20 is illustrated. The study outlines basic problems and tells how they were solved.

The Raymond Corp.

Circle No. 161 on Reader Service Card

Swivel Plate Casters:

Specifications of 5, 6, and 8 inch casters and their design features are listed in Form 52658, 2 pages.

Faulkless Caster Corp.

Circle No. 162 on Reader Service Card

A Guide to Wire Stitching:

A comprehensive catalog on wire stitching is now available. The 28-page booklet describes the flat and arcuate methods of wire stitching, typical stitch-

ing operations, and gives details and specifications of over 30 stitching machines. It shows typical applications of box stitching, bagging, carding, labeling, book stitching, and metal stitching. It also includes complete data on accessory equipment and stitching wire.

Acme Steel Co.

Circle No. 163 on Reader Service Card

"Technics" Material Handling System:

The story of "Technics"—the art of coordinating material handling through management to open new opportunities for profit is presented in a 56-page Rapistan brochure. Included are reprints of 18 articles that appeared in publications after editors viewed the applications of "Technics" in a conveyor manufacturing plant.

The Rapids-Standard Co., Inc.

Circle No. 164 on Reader Service Card

Powered Stacker:

A fully-powered stacker in the low price range is described. Full informa-

Can't Find the Reader Service Card?

Many readers have reported that their copy of MATERIAL HANDLING ILLUSTRATED sometimes arrives without the Reader Service Card. This may be caused by others in the plant who see the magazine first, tear out and use the card, and pass the magazine on. If this copy reaches you without a Reader's Service Card, use this supplementary coupon to obtain additional information from the manufacturer on any advertisements, new equipment data, useful literature. Send to: MATERIAL HANDLING ILLUSTRATED, 812 Huron Rd., Cleveland 15, Ohio. CAUTION: This must be mailed first class in a sealed envelope.

APRIL, 1959 do not use after 8-15-59 • MATERIAL HANDLING ILLUSTRATED

Name Position

Company Kind of Business

Street

City Zone State

Please send me information and literature on items circled below.

| | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 1 | 18 | 35 | 52 | 69 | 86 | 103 | 120 | 137 | 154 | 171 | 188 | 205 | 222 | 239 | 256 | 273 | 290 |
| 2 | 19 | 36 | 53 | 70 | 87 | 104 | 121 | 138 | 155 | 172 | 189 | 206 | 223 | 240 | 257 | 274 | 291 |
| 3 | 20 | 37 | 54 | 71 | 88 | 105 | 122 | 139 | 156 | 173 | 190 | 207 | 224 | 241 | 258 | 275 | 292 |
| 4 | 21 | 38 | 55 | 72 | 89 | 106 | 123 | 140 | 157 | 174 | 191 | 208 | 225 | 245 | 259 | 276 | 293 |
| 5 | 22 | 39 | 56 | 73 | 90 | 107 | 124 | 141 | 158 | 175 | 192 | 209 | 226 | 243 | 260 | 277 | 294 |
| 6 | 23 | 40 | 57 | 74 | 91 | 108 | 125 | 142 | 159 | 176 | 193 | 210 | 227 | 244 | 261 | 278 | 295 |
| 7 | 24 | 41 | 58 | 75 | 92 | 109 | 126 | 143 | 160 | 177 | 194 | 211 | 228 | 245 | 262 | 279 | 296 |
| 8 | 25 | 42 | 59 | 76 | 93 | 110 | 127 | 144 | 161 | 178 | 195 | 212 | 229 | 246 | 263 | 280 | 297 |
| 9 | 26 | 43 | 60 | 77 | 94 | 111 | 128 | 145 | 162 | 179 | 196 | 213 | 230 | 247 | 264 | 281 | 298 |
| 10 | 27 | 44 | 61 | 78 | 95 | 112 | 129 | 146 | 163 | 180 | 197 | 214 | 231 | 248 | 265 | 282 | 299 |
| 11 | 28 | 45 | 62 | 79 | 96 | 113 | 130 | 147 | 164 | 181 | 198 | 215 | 232 | 249 | 266 | 283 | 300 |
| 12 | 29 | 46 | 63 | 80 | 97 | 114 | 131 | 148 | 165 | 182 | 199 | 216 | 233 | 250 | 267 | 284 | 301 |
| 13 | 30 | 47 | 64 | 81 | 98 | 115 | 132 | 149 | 166 | 183 | 200 | 217 | 234 | 251 | 268 | 285 | 302 |
| 14 | 31 | 48 | 65 | 82 | 99 | 116 | 133 | 150 | 167 | 184 | 201 | 218 | 235 | 252 | 269 | 286 | 303 |
| 15 | 32 | 49 | 66 | 83 | 100 | 117 | 134 | 151 | 168 | 185 | 202 | 219 | 236 | 253 | 270 | 287 | 304 |
| 16 | 33 | 50 | 67 | 84 | 101 | 118 | 135 | 152 | 169 | 186 | 203 | 220 | 237 | 254 | 271 | 288 | 305 |
| 17 | 34 | 51 | 68 | 85 | 102 | 119 | 136 | 153 | 170 | 187 | 204 | 221 | 238 | 255 | 272 | 289 | 306 |

tion is given on the Champion stroller, electric fluid-drive fork-lift truck. It moves at speeds up to 2 mph with a full 1000 lb. load.

*Tubar Lift Division of Uhrden, Inc.
Circle No. 165 on Reader Service Card*

In Plant Container-Positioner:

Work-O-Matic is described as a material handling system offering distinct advantages in storage, moving, and handling of parts and materials in process. Catalog No. 89 shows how a positioning stand and multi-duty box combination increases production and eliminates stoop-bending methods.

*The Union Metal Mfg. Co.
Circle No. 166 on Reader Service Card*

Braking Systems for Industrial Trucks:

Explanation of a Tri-Safe braking system that, according to the manufacturer, actually incorporates the safety and positive control features of three completely independent brakes are given in EP1158 Engineering bulletin.

*Ewell-Parker Electric Co.
Circle No. 167 on Reader Service Card*

Flip-Out Roller or Wheel Conveyors:

Points to remember when considering use of a wheel conveyor or a flip-out roller conveyor is one of the presentations in Bulletin MHC 58. Much general information is given, along with a listing of supports and stands available and weight charts.

*Conveyor Systems, Inc.
Circle No. 168 on Reader Service Card*

Easily Converted Portable Lift Guide:

Accessories quickly convert the Booster for service as a portable elevator, platform truck, straddle fork truck, or shop crane. Bulletin L-22 lists 7 work areas for a portable lift. They are shipping and receiving, stacking, process handling, die handling, work positioning, maintenance and one man order picking.

*Hartman Metal Fabricators, Inc.
Circle No. 169 on Reader Service Card*

New 1959 Chain Catalog:

A 98-page catalog features a complete line of roller chains, sprockets, conveyor chain attachments, plus valuable engineering formulas and installations.

*Acme Chain Corp.
Circle No. 170 on Reader Service Card*

The Magic Ribbon That Does Almost Everything:

An accidental discovery that may revolutionize all forms of packaging is described in a 4-page bulletin just published. LU MO Package Saver Metallic Ribbon is a thin strip of aluminum foil running from top to bottom of cello-

USE COLSON TRUCKS



◀ DRUM TRUCKS Here's the fastest, safest, most efficient way to handle drums and barrels. Locks firmly on any size container.



▶ HAND TRUCKS Over 50 types for easy, one-man handling of bags, cases, drums or crates up to 1000 pounds.

TO MOVE MATERIALS



◀ TRAY TRUCKS Over 200 types and sizes. Tray, dish, package and rack-types to speed transfer of food or merchandise.



▶ PLATFORM TRUCKS Over 100 types and sizes. Smooth-rolling wood or steel bodies. Handle, stake, or flat-bed types for loads up to 2400 lbs.

TO SAVE MANPOWER

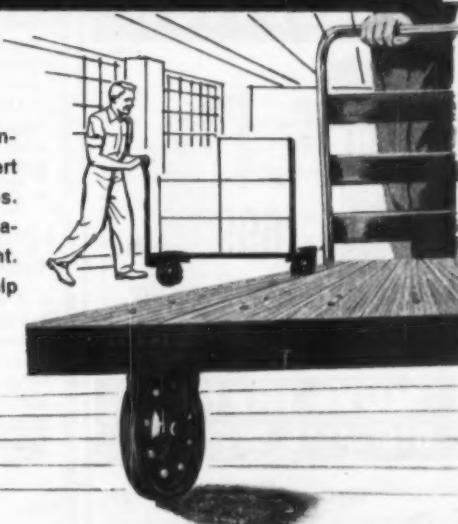


◀ LIFT JACK SYSTEMS Positive locking mechanism. The connecting pin on the jack is guided surely to the skid socket with ease, even in the dark.



▶ IN-LINE TRUCKS They roll and maneuver swiftly . . . save time and manpower . . . cut costs tremendously . . . withstand years of rugged service.

AND SAVE MONEY



To remain competitive, management must always be alert to new operating economies. One way is with Colson materials handling equipment. Find out how Colson can help you, contact your local representative or distributor or write to:



The Colson Corporation
7 South Dearborn, Chicago, Ill.

Plants in: Jonesboro, Ark., Elyria, Ohio, Somerville, Mass., and Toronto, Can.

Circle No. 25 on Reader Service Card

the Right Combination... QUALITY



"the CHALLENGER"

\$397.50
complete
1500 lb. capacity

Model 1056—battery operated



"the DRUM
HANDLER"

\$890.00
complete
1000 lb. capacity

Model 3862—battery operated



"the TELESCOPIC 99"

\$699.00
complete
1000 lb. capacity

Model 9972T—battery operated

MORE THAN 80 BIG JOE MODELS



Hydraulic Handling for
EVERY Department
BIG JOE
Manufacturing Company

Sorrington Road
Wisconsin Dells, Wisconsin

Circle No. 26 on Reader Service Card

WHATS NEW IN USEFUL LITERATURE

cellophane from becoming brittle, keeps the bags from breaking or puncturing during handling and storage. But the manufacturer claims still newer uses that may eventually make your foods taste better, shoes last longer, and give your car increased gas mileage. The simple machinery can be added to your present packaging line. The literature tells how it works.

LU MO Corp.

Circle No. 171 on Reader Service Card

Which Truck?

That is the big question when setting up or revamping a material handling program. Finding the answer can be made easier if you properly analyze the job to be done. How to do this is one of the features of "Facts and Factors" booklet now available.

Automatic Transportation Co.
Circle No. 172 on Reader Service Card

Crane Scale:

Technical and design improvements of a hydraulic crane scale with capacities of 1000 to 4000 pounds are presented in bulletin M-25.

Martin-Decker Corp.
Circle No. 173 on Reader Service Card

Special Purpose Hand Trucks:

Catalog 104, 34 pages, describes trucks for moving plate glass, plywood, sheet metal, and building materials; for pipe, tubing, bar stock, etc.; flatbed types for fruit, produce, and general utility use; general utility types for clothing and merchandise; deep tray trucks for paints; maintenance and wash tank trucks; and building and plant maintenance high ladder trucks.

Rol-Away Truck Mfg. Co., Inc.
Circle No. 174 on Reader Service Card

Kraft Paper Buyers Guide:

A kraft buyers guide is yours for the asking to aid in ordering kraft papers efficiently and economically. The guide contains a handy reference table on equivalent weights, roll weight, yards per roll, and ream weight. In addition, it gives you samples of the available basis weights.

Hudson Pulp & Paper Corp.
Circle No. 175 on Reader Service Card

Utility Tractors:

A three-fold catalog, UT-103 gives a pictorial review of the D-series utility tractors. Specification and dimensions of the D-14 (35 horsepower, 4200 pound tractor), and the D-17 (54 horsepower,

5300 pound tractor) are included. Various approved attachments are illustrated.

Allis-Chalmers Mfg. Co.
Circle No. 176 on Reader Service Card

You and Two-Way Mobile Radio:

Through two-way radio, a new dimension has been added to the use of material handling equipment, trucks, construction equipment, railroads and other mobile equipment. Today thousands of business organizations utilize it as a tool to accelerate productivity. Details are given in "You and Two-Way Mobile Radio."

Motorola Inc., Communications and Industrial Electronics Div.
Circle No. 177 on Reader Service Card

Rider and Hand Truck Batteries:

Details on the firm's complete line of premium Slyver-Clad truck batteries are given in Bulletin IT-528. Plate and cell construction, weights, sizes and tray arrangements are covered for both rider and hand trucks. Connector data and a complete listing of the company's sales and service offices are given.

C & D Batteries, Inc.
Circle No. 178 on Reader Service Card

Standard Size Adjustable Storage Rack:

Standard size racks that can be used for almost any plant or warehouse application are described in a pictorial folder. Materials and merchandise of almost any size and shape can be stored; three shelves have been tested up to 5000 pounds capacity each.

Palmer-Shile Co.
Circle No. 179 on Reader Service Card

Material Handling Equipment Catalog:

Jib cranes, gantry cranes, grabs, vacuum lifters, buckets, and coil up-enders are covered in this loose-leaf catalog. An illustration index on the cover quickly and vividly points out the entire line of equipment.

H. L. Bushman Company, Inc.
Circle No. 180 on Reader Service Card

Driverless Tractors:

This 4-page bulletin describes tractors and trucks that are electronically controlled so that no operator is needed. The three components of the system are described: 1. The wire or line guide path. 2. The sensing device which follows the wire or tape and guides the tractor. 3. The converter which supplies energy to the guide wire in the magnetic system.

Barrett-Cravens Co.
Circle No. 181 on Reader Service Card

Truck Upr Storage Capacity 40%:

A manufacturer of building materials increased its storage capacity 40% without increasing total plant area with



**YOUR
BEST
move!**

ALBION *industrial...* CASTERS

Albion casters checkmate your materials handling problems. They are versatile, dependable, economical and available right now. Whether you need a caster for light, medium, heavy or extra heavy duty requirements—standard or special—Albion casters are the practical answer.

Albion casters are available in every conceivable range of industrial size, type, capacity and desired wheel type to suit your needs.

Make the best move...get all the facts on Albion Casters today. Write, wire or phone for the information you need. Albion is always at your service.

Do it now...

request your copy of the Albion Caster and Wheel catalog. Yours for the asking.

**ALBION
INDUSTRIES,
INC.**

Distributors in Every Strategic City
MAIN PLANT:
ALBION, MICHIGAN

Circle No. 27 on Reader Service Card

SPRING 1959

a "fleet" of 6 fork lift trucks. Five were equipped with special forks and hydraulic unloader attachments. Job Study No. 181 tells of the operation.

Towmotor Corp.
Circle No. 182 on Reader Service Card

Steel Framed Trucks:

This 6-page bulletin depicts hand trucks, liftjack platform trucks, four-wheel platform trucks, and dollies.

The Fairbanks Co.
Circle No. 183 on Reader Service Card

Power Feed for Strapping Large Loads:

A power strap feed assembly for strapping large packages is the subject of a recently published 8-page folder. The Model E41 assembly feeds strapping at rates up to 4½ feet a second. One model continues to feed as long as a hand lever is depressed. Another is controlled by a foot lever. A third is also foot-operated, but feeds strap until the strap end comes within the operator's reach, then trips a limit switch. The booklet gives complete specifications for all models.

Acme Steel Co.
Circle No. 184 on Reader Service Card

Describes Ball Point Marker:

An easy-to-use ball point marker is the subject of a 4-page folder just pub-

MORSE Model 80 Barrel-Lift

Now . . . one man can safely handle liquid drum loads from 500 to 1,000 lbs.—raise, rotate, transport, tilt and drain 55 gal. drums. The mess, expense and hazards of spills, leaks, overflow and drum damage are eliminated. Sturdy, all steel welded construction; rubber tired wheels with ball bearings and rubber tired rear caster.



MAN • MINUTE • MONEY SAVERS!

MORSE Model 85

Drum-Karrier

Provides complete control. Easy one-man operation. Attaches to any monorail hoist . . . for all double chine drums 23" in diameter, 36" in height. Positive tilt locks hold drum in vertical position for carrying . . . provide control of tilt for mixing or dispensing. All steel welded construction.



Clip this ad to your letterhead



MORSE
MANUFACTURING CO., INC.
739 West Genesee Street, East Syracuse, N.Y.

Circle No. 28 on Reader Service Card

**3 TOP
VALUES**
From Among 80
BIG JOE
Lift Truck Models



1
"the PEDALIFT 21"
\$199⁰⁰ complete

1000 lb. capacity
54 in. lifting height



2
"the 299"
\$299⁰⁰ complete

1000 lb. capacity
57 in. lifting height
Battery Operated



3
"the CHALLENGER"
\$397⁵⁰ complete

1500 lb. capacity
57 in. lifting height
Battery Operated

Hydraulic Handling for
EVERY Department
BIG JOE
Manufacturing Company
Serrington Road
Wisconsin Dells, Wisconsin

Circle No. 29 on Reader Service Card

Circle No. 30 on Reader Service Card

What's Your Loading Problem?

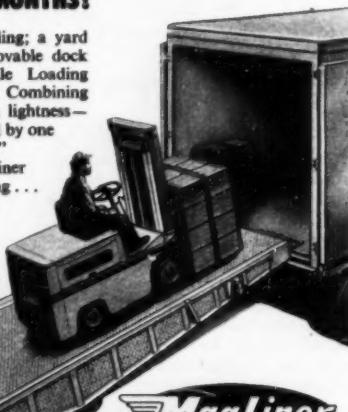
- GROUND LEVEL LOADING?
- YARD CAR HANDLING?
- INADEQUATE DOCK FACILITIES?
- TEAM TRACKS?

Here's Your Answer:

THIS MAGLINER MAGNESIUM LOADING DOCK ON WHEELS CAN SAVE YOU THOUSANDS OF DOLLARS! REPAY ITS COST IN JUST A FEW MONTHS!

If you have no dock, an older building; a yard handling problem; need extra or movable dock facilities—then the Magliner Mobile Loading Ramp can solve your problem too! Combining magnesium strength with magnesium lightness—Magliner loading ramps can be moved by one man . . . give you a "loading dock" where and when you want it! Magliner loading ramps eliminate hand loading . . . speed operations . . . cut expense! For highway trailers and yard cars. Get the Facts—write today for Bulletin DB-211.

A LOADING DOCK
WHERE YOU WANT IT
WHEN YOU WANT IT
One Man Moves It!



MagLiner
MAGNESIUM

Mobile Loading Ramp

MAGLINE INC., P. O. BOX 404, PINCONNING, MICH.

Canadian Factory: Magline of Canada, Ltd., Renfrew, Ontario

YOU CAN
BUILD
CHANGE
EXPAND
MOVE
your storage racks
with only a
HEX KEY,
HACKSAW
and
RACKMASTER®
FITTINGS

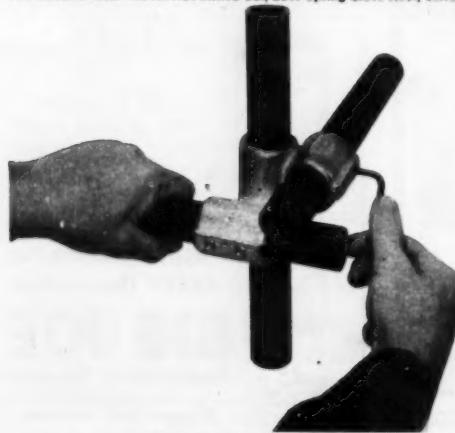


RACKMASTER FITTINGS cut rack-building time as much as 60% by eliminating threading and welding. They cut other rack-building costs, too—

- pipe is 100% salvagable
- pipe-cutting is reduced to a minimum
- regular warehouse crews can build racks
- slip-on feature simplifies design and construction

RACKMASTER is stocked by leading distributors. Write for details on Rackmaster and multi-purpose NU-RAIL Fittings Dept. M 21

THE HOLLAENDER MANUFACTURING CO., 3841 Spring Grove Ave., CINCINNATI 23, OHIO



Circle No. 31 on Reader Service Card

WHAT'S NEW IN USEFUL LITERATURE

Caster Data:

Literature gives full information and specifications on L900 series medium duty swivel plate casters and rigid plate 19700 series. The L900 is designed for use in industrial plants, warehouses, truck terminals and commercial firms. Features include double ball bearing swivel, machined lower thrust raceway, and grease retaining and bearing protection cups. Its companion L9700 matches in sizes, specifications, and load ratings.

Faultless Caster Corp.

Circle No. 185 on Reader Service Card

Unobstructed Storage:

Large open shelf area without obstruction or cross-bracing is possible with Sturdideck, says the manufacturer. A four page bulletin illustrates the decking, which is available up to 48" x 96" without bracing. No bolts, nuts, tools or special labor are necessary with its float wedge construction.

Sturdibilt Material Handling Div.
Union Asbestos & Rubber Co.

Circle No. 186 on Reader Service Card

SMOOTH...
SWIFT...
SAFE...
SILENT...

ELECTROLIFT

WORM-DRIVE HOISTS

Dependable, long-lasting ElectroLift hoists are used by the thousands in America's largest manufacturing plants. Features of these units—ranging from $\frac{1}{4}$ - to 10-ton capacity—include:

- Worm-drive design for safe, sure braking action
- Use of quality components and materials for trouble-free performance
- Fully enclosed motor and gearing for clean, quiet operation
- Greater compactness for close headroom, safer action

For details on speed, models and operation, consult your classified directory for the ElectroLift representative nearest you.

ELECTROLIFT
Worm-Drive Hoists

6457

204 Sergeant Avenue

Clifton, N. J.

Circle No. 32 on Reader Service Card

Wear-Proof Wheels:

Literature on solid polyurethane and its applications in material handling. Describes amazing wear resistance of polyurethane lift truck wheels. The method of preparing the raw material is discussed. A physical description and case histories of parts successfully made from solid polyurethane are treated.

*Marketing Service Dept.,
Disigrin Industries, Inc.
Circle No. 187 on Reader Service Card*

Wide Lightweight Conveyor:

Used for handling bulk materials as coal, sand, gravel and grain, "Neco" 5" belt conveyors are lightweight and portable. A four-page brochure features the conveyor's low cost, and one man operation. The same idler and drive end assemblies work on any length conveyor.

*Conveyor Service Co.
Div. of The Nichols Eng. Co.
Circle No. 188 on Reader Service Card*

Planning Service Offered:

Catalog 505 explains a system of low cost, multi-purpose steel containers for processing, assembly and storage. The company's special problem service is explained, featuring complete facilities for contract work on any job involving shearing, welding, forming and painting of sheet steel. Sectional Stack-shelves, assembly bins and hoppers, various combinations, pallets for Stack-racks, tool storage cribs are among other featured items in this catalog.

*Stackbin Corporation
Circle No. 189 on Reader Service Card*

Bags Have Built-In Cushions:

Jiffy bags are described in a pocket folder that's yours for the asking. They come in sizes and styles for any type of product from books to bottles of wine. Just insert the product into the padded bag, seal, and you have a perfect damage-free shipper. Outer layer is waterproof kraft. The literature gives complete specifications.

*Jiffy Mfg. Co.
Circle No. 190 on Reader Service Card*

Shows Containers at Work:

Application photographs in this 18 page brochure visually indicate how materials handling problems are solved through Palletainers. Presented are the Standard Hi-Lode Models, Warehouse Models, Bulk-Lode Models and Bearing Plate Models. Other sections are on Palletainer construction features, testing equipment, dividers, dollies and pallets.

*Union Steel Products Co.
Circle No. 191 on Reader Service Card*

Electric Burden Carrier:

Bulletin ET-2 has the Model E1900 electric speed truck as its subject. This 2000 pound capacity burden carrier features low-bed construction to provide easy loading. Specifications are given and components are illustrated.

*Kalamazoo Manufacturing Co.
Circle No. 192 on Reader Service Card*

EXPLOSION PROOF

CLASS I GROUP D

POWERED LIFT TRUCKS



APPROVED

and PROVEN

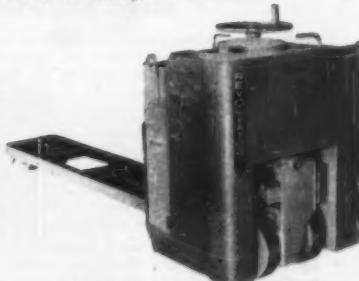
**8 YEARS
ON THE JOB**

Since 1951 Revolvator Go-Getters, designed for this service, have been specifically approved by leading industrial insurance companies for use in Class I Group D explosion hazardous areas in major plants from coast to coast. User comments like those below show that the Go-Getter has been more than approved by safety authorities...it has been proven in use for eight years.



The Plant Manager where the Go-Getter at the left is used says, "In an area where we have explosive fumes, aluminum chloride dust and hydrochloric acid fumes what was previously a difficult, disagreeable job for two men is now easy for one."

Air in the color mixing room of the finishing plant where the Go-Getter above is used carries organic dusts as well as explosive fumes. The foreman says, "The men like the Go-Getter and use it steadily."



Executives in the chemical plant where the model to the right is used say, "We use the Go-Getter in our area which has the most severe hazard." Another plant where quantities of explosive solvents are used for "wash down" reports of a similar model, "We are well pleased and we are ordering another Go-Getter."

A major insurance association writes, "We are quite willing to accept the unit (Go-Getter) as it is designed with explosion proof housings for the motors and controls as usually specified for electrical equipment that can be safely used in explosion hazardous areas."

A nationally known safety engineer writes, ". . . calling the existence of this line of trucks to the attention of the industry as we believe many would want to know about this equipment."

The Go-Getter is the latest addition to a complete line of materials handling equipment for use in explosion hazardous areas that Revolvator has been building for over a quarter of a century.

REVOLVATOR CO.
8719 TONNELE AVENUE, NORTH BERGEN, N. J.

SINCE 1904

Circle No. 33 on Reader Service Card

WHAT'S NEW IN USEFUL LITERATURE

"Pallet Handling In Narrow Aisles":

Do you know the labor saving advantages of unit load handling and are you familiar with the use of air rights and the space saving benefits of narrow aisles in your warehouses? A 24 page handbook describes the principle types of trucks available for narrow aisle

operations. On-the job pictures of the equipment in use are shown.

The Raymond Corp.

Circle No. 193 on Reader Service Card

"There Is A Difference In Diesels"

And it is shown in this brochure that first gives the difference in diesel and gasoline engines. Advantages and disadvantages are given. Differences in diesel fuel systems, fuels, parts interchangeability, parts, and engine service are other main sections. The manufacturer claims that the time may not be too far away when Diesels will be the exclusive work engine and

gasoline engines will be used primarily where light duty ultra-high speed and rpm are required, as in automobiles.

Diesel Engine Div.

General Motors Corp.

Circle No. 194 on Reader Service Card

Spring Mounted Casters

A 15-page catalog on its line of advanced running gear, including casters, brakes, and undercarriages. Design considerations, suspension characteristics and typical applications are presented.

Modern Caster Co.

Circle No. 195 on Reader Service Card

Metal Specialties:

Catalog MS-57 describes the Wipco line of custom-built baskets, racks and metal specialties. They are used in dipping, pickling, totting and conveying processes. Equipment is available in any type of wire, depending on processing requirements.

Wire & Iron Products, Inc.

Circle No. 196 on Reader Service Card

Export Packing Film:

A 12-minute film shows how one of New York's largest export packing firms boxes products from small precision parts to giant diesel powered equipment for overseas shipment. The 16 mm film "Packing for Lowest Land-Cost" is in color with regular optical sound track. It tells the function of material handling equipment in this complex operation and how the proper size lift truck is used for each operation. The film is available for showing.

Hyster Co.

Circle No. 197 on Reader Service Card

Portable Pneumatic Conveying:

Full information in bulletin PB-502 on portable Hoffco-veyors No. 100 and 150. They provide conveying for rapid, safe movement and recovery of such materials as rock granules, plastic pellets, and gritty or pulverized substances. Features include ease of maneuverability, unfailing high suction, a large bag area, and over all compact design.

Air Appliance Div.

U. S. Hoffman Machinery Corp.

Circle No. 198 on Reader Service Card

The Story of Triple-Wall Corrugated:

Just off the press is literature about Tri-Wall Pak, a corrugated material with three layers of flutes. It tells how Tri-Wall Pak is being used successfully for packaging jobs where ordinary and double corrugated were not strong enough. The material has been approved for government packaging. Its stacking strength is superior to other corrugated boards. You can order containers to suit your needs, knocked down for storage.

Tri-Wall Containers, Inc.

Circle No. 199 on Reader Service Card



In the top photo, two concrete block racks ride tandem. That's 10,000 pounds that are hustled around at the "World's Largest Concrete Block Plant" in Arizona. Sharp turns and narrow aisles are easily handled with the Erickson Articulated Pivot Steering, even though the welded-together racks extend eleven feet in length.

In the lower photo, notice how 5,000 pounds of chain stays securely on the spring cushioned platform—no jolts or bounces to shake it off the skid. The Erickson astonishes seasoned operators because of its ability to handle heavy loads with normal ease and speed.

Bulky, heavy loads move quickly and smoothly into the tightest places with Erickson Ar-tic-u-lated platform trucks. A heavy duty articulated pivot joins the platform to the power unit, giving the maneuverability of 4-wheel steering.

Load bearing wheels are directly under the load. This means maximum stability in a compact truck, unsurpassed for heavy loads in close quarters. Spring cushioned platform provides faster, surer handling. Capacities range from 5,000 to 20,000 lbs. with platforms up to 15 feet long. Lifts up to 9 feet are available in the Erickson Hi-Lift Platform Truck.

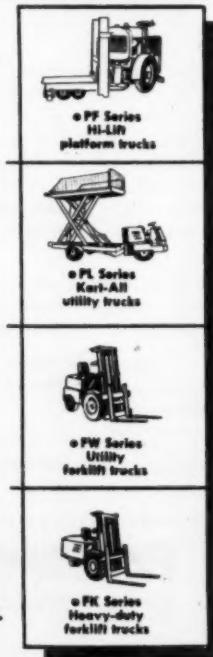
Erickson Ar-tic-u-lated platform trucks are rugged, long-lived, economical. They pay for themselves quickly. Send for your detailed illustrated Erickson bulletin today, and name of nearest distributor.

Erickson offers:
Platform Trucks, 5,000 to 20,000 lbs. capacity
Pneumatic Tired Fork Trucks,
2,000 to 5,000 lbs. capacity

Erickson

POWER LIFT TRUCKS, INC.
243 St. Anthony Blvd. N.E.
Minneapolis 18, Minn.

Circle No. 34 on Reader Service Card



Corrugated Containers

Continued from page 23

cient package shape for your product.

Corner Joint:

The three most common manufacturer's joints are taped, stitched, and glued, in that order. Taped joints are smoother inside than the others and tend to stack better, and seal out dust and dirt. On the other hand, they're the most expensive, and may weaken when wet. Stitched joints, using staples driven from the outside, are probably the strongest and least expensive. But they're not recommended for easy-to-scratch articles, because of the protruding metal stitches. Glued joints are the only ones that leave the outside of the box completely unmarked. That makes them the best for printing. But like taped joints, they may weaken when damp.

Display Value:

Someone once figured that 17 potential customers see the average box from the time it leaves your plant till it's delivered. So it pays to put a sales message on your containers. Some supermarket products, for example, rely more on the printing on the container than on any other form of advertising.

Most any container manufacturers can print any message or design you want, in any colors. The day of the plain brown corrugated box is vanishing fast.

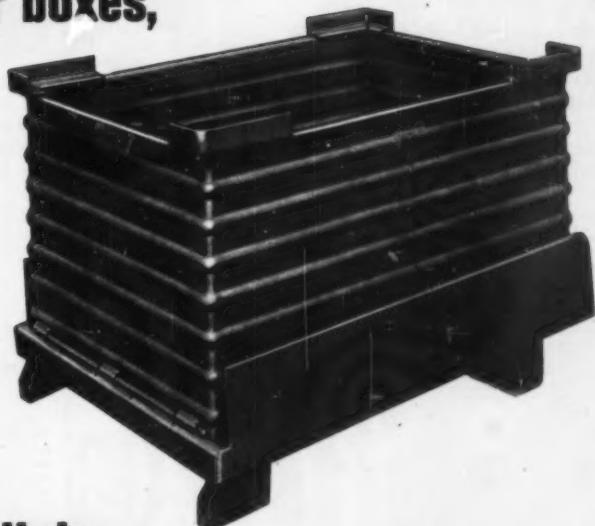
Handling, Shipping Methods:

We talked briefly about this in the section on construction, above. Handling-conscious design is perhaps one of the biggest reasons for the quick growth of the corrugated box industry. Corrugated suppliers know how much a well-designed container can cut material handling costs. The palletized box is just one example of what can be done. Take a look too at polyethylene-lined corrugated boxes for liquids. Or the drum-type corrugated box that locks shut when the lid is applied. Or the box with die-cut hand holes or handles for easy carrying.

You can get many unorthodox boxes, for practically any products, designed to do a specific job. The box you don't know about may be just the one you need. Or, if it hasn't been designed yet, your supplier can probably come up with a special one for you. Ask him.

LOOK TO UNION METAL

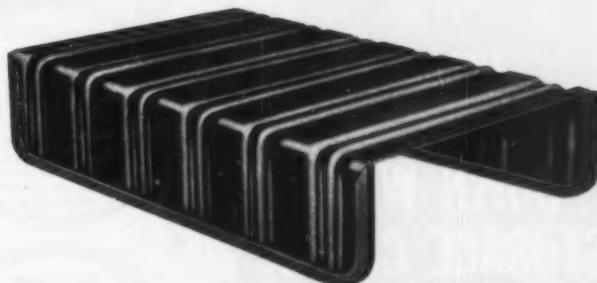
for boxes,



pallets,



skids



Detailed information covering advantages, features and complete range of designs is readily available.

THE UNION METAL MANUFACTURING COMPANY
Canton 5, Ohio • Brampton, Ontario

UNION METAL
Material Handling Equipment

Circle No. 35 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Continued from page 10

Low Profile Loader

An important feature of the H-90 Payloader is the low profile of the front shroud. It gives the operator improved visibility and makes for easier, faster and safer operation. Model designation of the machine, which replaces the HO model, is

based on the load carry capacity. (In this instance, 9000 pounds at average travel speeds.) Buckets to



Circle No. 113 on Reader Service Card

handle materials of various weights within the recommended carry capacity are available in sizes from

1½ to 5 cubic yards. The H-90 has a breakout force of 21,000 pounds and a bucket tipback of 44° at ground level. Like its predecessor, it has torque-converter drive, power-shift transmission and heavy-duty planetary axles.

The Frank G. Hough Co.

Industrial Tractor Is Plant Handy Man

The Cub Lo-Boy tractor performs numerous jobs in and out of the plant, including moving trailer trains. More than 25 time-saving



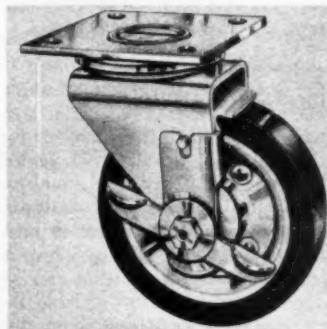
Circle No. 114 on Reader Service Card

attachments (loaders and blades for handling bulk materials and snow removal, mowers, etc.) are available for the Lo-Boy. Built and equipped like a big tractor, but in the 10 hp class, it has three speeds forward and one reverse.

International Harvester Co.

Caster Brake

This positive - acting adjustable brake is designed for medium duty applications. It has a formed brake shoe which contacts maximum area of tire in the caster's vertical axis. The actuating force is in line with



Circle No. 115 on Reader Service Card

the braking force. Cam action sets the brake shoe for either secure locking or complete release. The brake actuating cams are a pre-formed part of the brake shoe, fully hardened and designed to give maximum motion to the brake shoe. The foot lever is made of heavy gage steel. It can be adjusted to compensate for tire wear by an eccentric surface mounted on the

UP WITH TIER-RACK EQUIPMENT! DOWN WITH STORAGE COSTS!

TIER-RACK
PALLET STACKING FRAMES

TIER-RACK CORPORATION
122 N. 7th St., St. Louis 1, Mo.

WRITE FOR BOOKLET TR-11.

PICKING FRAMES
PICK UP SPACE
You store other goods above the picking pallet without disturbing the order-picking process, putting space to work.
PAT. PEND.

PALLET STACKING FRAMES
KEEP LAYOUTS FLEXIBLE
Convert present pallets to racks for ceiling-high storage. Go together and come apart fast, no fittings or tools.
PAT. NO. 2,828,923
PAT. NO. 2,826,923
AND PAT. PEND.

PALLET GUARDS
SAVE YOUR PALLETS
Steel bumpers prevent end board breakage and nail failure due to rough handling. Cut costly pallet maintenance to minimum.
PAT. NO. 2,997,347

PALLET BOXES
CONTAIN THE LOAD
Fasten to rack sides to form inexpensive, temporary protective containers. Prevent load-shifting. Drop sides for accessibility.

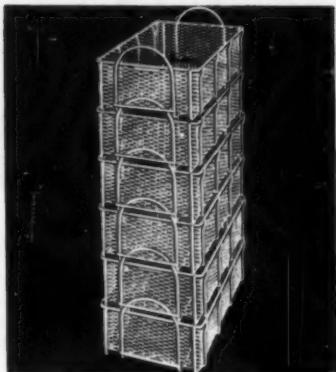
Circle No. 36 on Reader Service Card

axle belt. The brake can be used with casters and rubber wheels from 4 to 6 inches in diameter.

Jarvis & Jarvis, Inc.

Stacking Baskets

Fabricated of flat expanded metal, these Eazy-Stak baskets insure quick drainage and easy cleaning. They are zinc-plated with a rust-



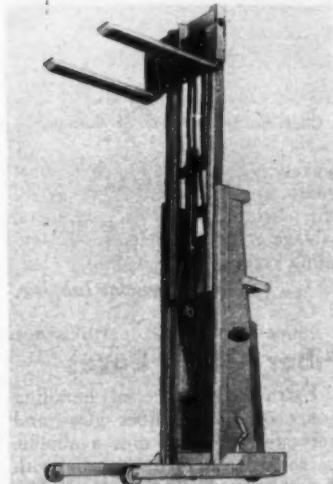
Circle No. 116 on Reader Service Card

resistant finish. Patented interlock handle provides safe, convenient stacking and compact parts storage.

Wire & Iron Products, Inc.

Redesigned Lifts

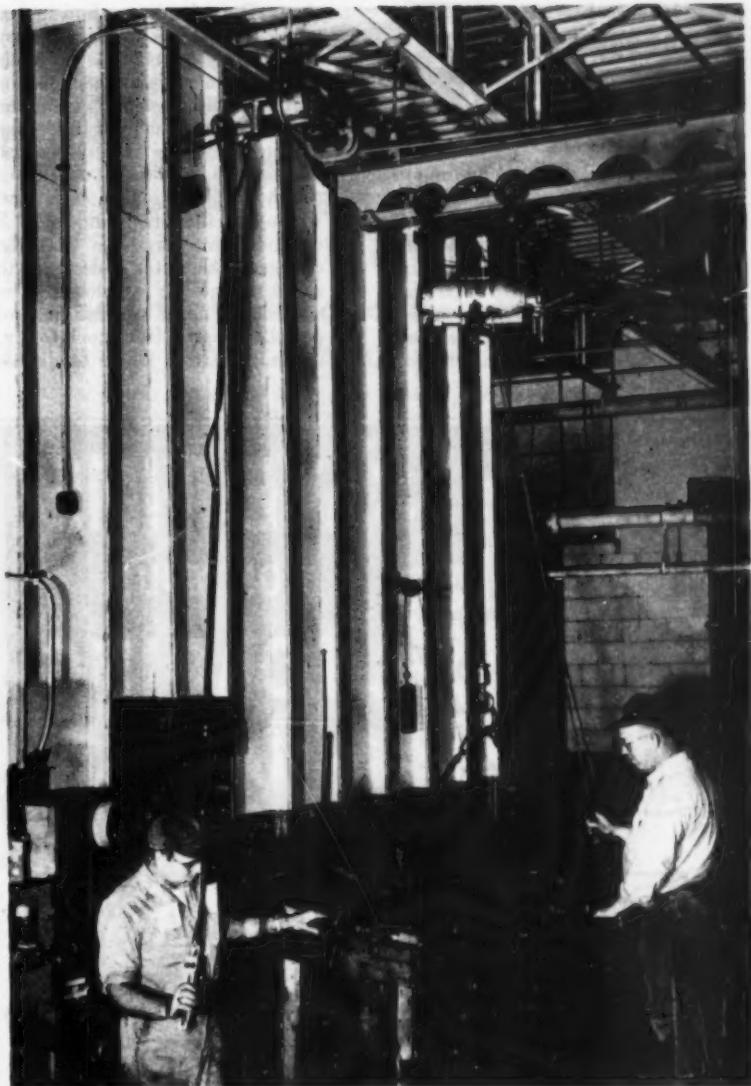
The E-Z Lift line of portable stacking trucks has been completely redesigned. Thirty-five standard models have been added to the line, which includes telescoping forks.



Circle No. 117 on Reader Service Card

This feature allows the E-Z Lift to stack in low ceiling areas and still be capable of lifting loads as high as 130 inches.

Crown Controls Co., Inc.



Two-Way Team spots loads easily, safely

Two-way team for two-way power. The man at the right lifts and moves loads of patterns along 20 feet of traveling bridge. The man at the left moves the entire load (patterns, hoist and beam) to any location within 50 feet of travel. This unusual combination of Gardner-Denver hoist and "Hoistractor" can add economical push-pull power to any materials-handling operation. Write for Bulletins 86-1 (hoists) and 87-1 (Hoistractors).

EQUIPMENT TODAY FOR THE CHALLENGE OF TOMORROW



GARDNER DENVER

Gardner-Denver Company, Quincy, Illinois

In Canada: Gardner-Denver Company (Canada), Ltd., 14 Curly Avenue, Toronto 16, Ontario

Circle No. 37 on Reader Service Card

WHAT'S NEW IN EQUIPMENT

Aluminum Hoists

A line of lightweight aluminum hoists includes models that have from $\frac{1}{4}$ -ton to 2-ton capacities. These hoists feature interlocked pushbutton controls. The plastic control is the pistol-grip type so that the operator can pull the trolley mounted hoist and depress the buttons with his thumb at the same

time. The aluminum housing is made in sections to permit easy access to all parts. It is a simple operation to rechain the hoist or adjust the limit switch, claims the manufacturer. Changing from one voltage to another is easy because all connections are at one end of the hoist. Terminal boards and wires are identified and only 7 quick-connect terminals must be changed. The motor is designed to reject dangerous overloads. The suspension units are designed to permit changing from hook to lug, or shifting from single to double



Circle No. 118 on Reader Service Card

chain lifting by merely removing 3 screws and replacing or moving the unit. Other features: lifetime lubrication, self-adjusting magnetic brake.

Coffing Hoist Div. of Duff-Norton Co.

Spray Off Old Stencil Marks

Bulk tan-colored obliterating fluid is now available in aerosol spray cans. No stirring, drying out, or brushes to clean with Stencil-



Circle No. 119 on Reader Service Card

Kover. The color matches most boxes, cartons, etc. Just spray off old markings to reuse containers, salvage overruns, or block out stenciling errors.

Reynolds Ink, Inc.

Fiber Glass Boxes

Extra large material handling boxes of molded fiber glass and polyester resin are now available. Large parts can be transported with Totebox No. 531, which measures 26 x 21 x 12 inches. It weighs only one-third as much as comparable size boxes made of other materials. Special molded hand holes permit easy handling. Corner lugs permit easy stacking and prevent boxes from sticking together when

**SAVE TIME
ON YOUR
LOADING
DOCK**

WITH A

**ROLLWAY
PORTABLE
Steel
DOCK PLATE**

THAT ONE MAN CAN MOVE WITH EASE!

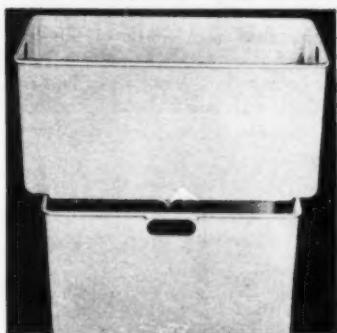
- Constructed from heavy, rugged steel that can really take it!
- Designed so one man can move it in seconds!
- Wheels and handles fold completely out of the way when in use!
- Safety engineered to eliminate many costly accidents!

CALL OR WRITE TODAY FOR MORE INFORMATION!

WOODFORD MANUFACTURING COMPANY
1610 Delaware Des Moines, Iowa

Circle No. 38 on Reader Service Card

stacked. When full, every other box can be turned 90 degrees for easy stacking. Notched bottoms allow straight balanced stacks eliminating any danger of injury to con-



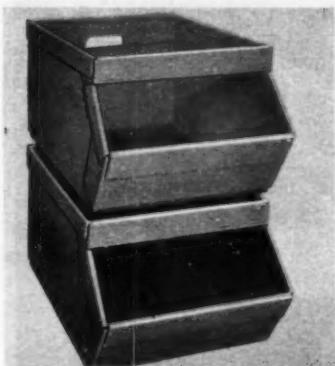
Circle No. 120 on Reader Service Card

tents. Sides are tapered to permit nesting of empty boxes. Edges are reinforced with wire. The boxes will not warp, chip, dent or rot. Various colors are available.

Molded Fiber Glass Tray Co.

Hopperfront Boxes

These stacking tote boxes have a hopper front that permits stacking of parts without disturbing the stack. These boxes are made of Chem-Board, a material produced by chemically rigidizing heavy corrugated to great strength, says the



Circle No. 121 on Reader Service Card

manufacturer. Inside dimensions of the boxes illustrated are 19" wide, 28" long; depth when stacked is 13½".

Convoy, Inc.

Stacking Rack Has Removable Posts

Two specific types of Stak-Pal are available. Type "B" designed with two center support angles in the basic rack for four-way entry and Type "C" designed with six center support angles arranged for

Nutting

shows you
"HOW"...

**the widest choice of floor trucks
in the world can cut your costs!**

For regular or "special" design floor trucks it pays to talk to Nutting first. Here's why: no other company makes more models, sizes or combinations of equipment than Nutting. Many times items which you may find listed as "specials" with other makers are regular equipment in Nutting's complete line. As a result you get "custom built" trucks at production line prices. You not only get overall lower prices; you also get the benefit of 68 years of experience, design "know-how" and modern manufacturing skills. To save valuable hours of your time and get the right equipment for your plant, talk to a Nutting representative first, for all your floor truck needs!

Nutting makes over 1000 products, here are just 16 of them

| | | | |
|---|---|--|--|
| | | | |
| For appliances and finished products | Wagon trucks up to 10,000 lbs. capacity | All types of dollies for boxes & cases | For sub-floor & overhead drag lines |
| | | | |
| Trailers — up to 7,000 lbs. capacity | CASTERS — all types | WHEELS — demountable rubber tired, solid rubber, plastic & metal | Shelf and tray trucks |
| | | | |
| Steel & aluminum frames for cases & cartons | Drag line trucks & trailers for palletless handling | Non-tilt platforms — Wood & steel frames | Shelf trucks for sub-assemblies |
| | | | |
| Dollies for cylindrical & odd shaped items | Tri-form & box trucks for packages & bundles | "Auto-Load" barrel & drum trucks | Tilt style platforms — Wood & steel frames |

Dollar for dollar, feature for feature Nutting is your best floor truck buy. Write for your free copy of new Junior Catalog 59G.

Nutting

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CASTER COMPANY
Faribault, Minnesota

NUTTING TRUCK & CASTER COMPANY
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Please send copy of Junior Catalog 59G.

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COMPANY NAME _____
ADDRESS _____
CITY _____ STATE _____

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Circle No. 40 on Reader Service Card

BARRETT SYSTEMS

Engineered to your job

Palletizer—sit-down, center-control Hi-Lift fork model. Reputation for reliability. Cap., 1000 to 12,000 lb.



WRITE FOR DESCRIPTIVE LITERATURE

Whatever your materials handling requirements may be, Barrett can do the job efficiently, economically.

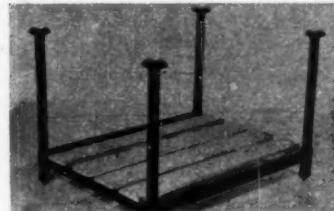
BARRETT

Materials handling engineers for half a century

BARRETT-CRAVENS COMPANY
642 Dundee Road, Northbrook, Illinois
Representatives in All Principal Cities
Canadian Licensee: S. A. Armstrong, Ltd.
Toronto, Canada

WHATS NEW IN EQUIPMENT

four-way entry with racks that are wider than the length of the lift truck forks. Stak-Pal in either Junior or Standard models can be furnished with solid decks of either



Circle No. 122 on Reader Service Card

plywood or sheet steel instead of standard deckboards at additional cost. Requests for special basic rack sizes and post heights may be obtained by writing to manufacturer.

C. E. Robinson Co.

Container Clamp

This container clamp for internal applications features a recently

A COMPLETE LINE OF ROLLER CONVEYERS ENGINEERED AND STANDARDIZED BY

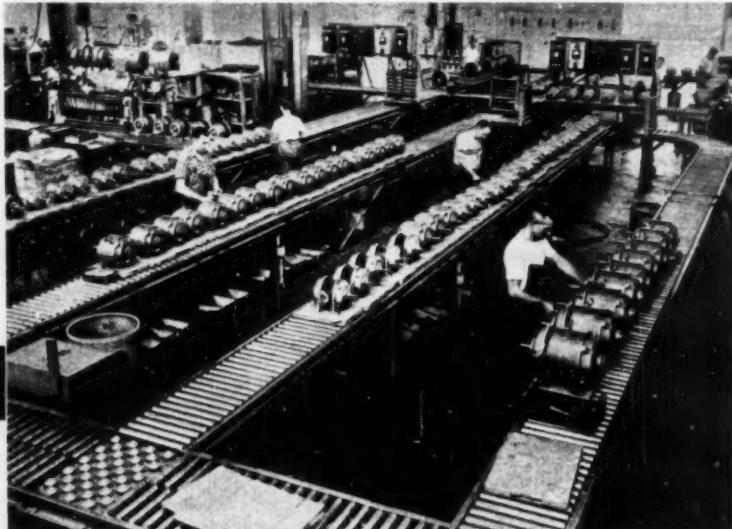
MATHEWS

The Mathews line of roller conveyor is complete, with rollers ranging from $1\frac{1}{8}$ " to $6\frac{1}{2}$ " in diameter, and with capacities from 60 lbs. to 13,000 lbs. High quality ball bearings are used throughout.

Accessories such as turntables, hinges and switches are available from stock.

A full line of couplings and supports makes the installation of Mathews Roller Conveyer lines convenient and easy.

For latest information write for Catalog 158



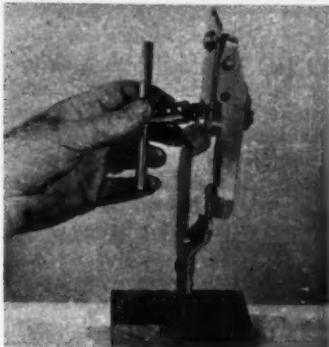
MATHEWS CONVEYER COMPANY
GENERAL OFFICES ELLWOOD CITY, PENNSYLVANIA
PACIFIC COAST DIV. . . . MATHEWS CONVEYER COMPANY WEST COAST,
SAN CARLOS, CALIFORNIA
CANADIAN DIVISION . . . MATHEWS CONVEYER COMPANY, LTD., PORT HOPE,
ONTARIO.

MATHEWS

Over Fifty Years of Leadership in Mechanized Handling

Circle No. 41 on Reader Service Card

developed worm-gear lock mechanism. The clamp is completely hidden within the container, except



Circle No. 123 on Reader Service Card

for the hex screw-head used for opening the clamp. It will not be affected by shock and has a holding pressure of 2000 pounds.

The Bassick Co.

Industrial Tire

A solid rubber tire with a built-in cushion is available for industrial vehicles. It is made of hard



Circle No. 124 on Reader Service Card

rubber on the outside with a cushion of softer rubber inside. Size is 25 x 6 x 15 $\frac{3}{4}$.

United States Rubber

Improves Loading

You can load long, heavy, and cumbersome products onto a rack



Circle No. 125 on Reader Service Card

placed on this lift table. With a convenient pedal switch, you can adjust the height of the table so that there is always an empty space on the rack at a convenient working height. When one side of the rack is filled, you can turn the rack around on a turntable which is mounted on the lift table.

West Bend Equipment Corp.

Package Crane Kit

The NH-SUH crane assembly has been added to the line of Load Lifter crane kits. These packaged



Circle No. 126 on Reader Service Card

cranes are available in capacities from $\frac{1}{2}$ to 10 tons with spans up to 50 feet. Each kit includes two completely assembled end trucks, cross shaft bracket and bearing assemblies, and shaft couplings. Also included is a 20-foot hand chain, chain wheel complete with guide, and a set of assembly instructions. A feature of these cranes is the

CUT COSTS on truck battery upkeep with these **HOBART CHARGERS**

for
maximum
battery
life... use
good
dependable
charging
... use
HOBART!

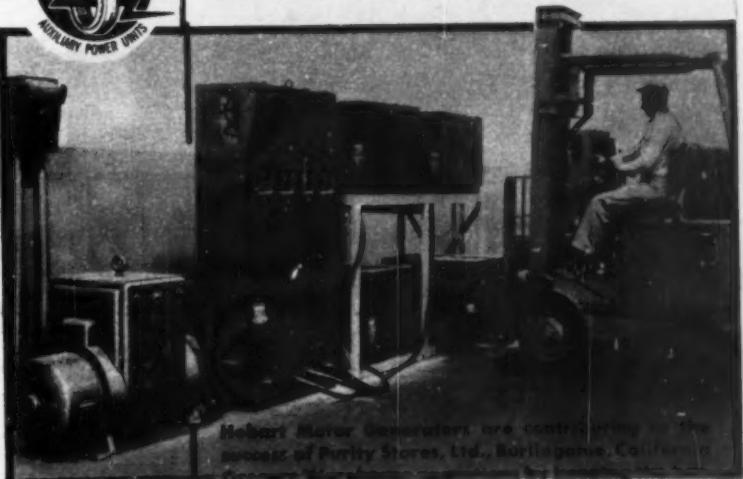


For your battery charging requirements . . . we suggest you get the most for your money by using Hobart Motor Generators. The reason is simply that Hobart Chargers bring you the highest quality at the best possible price!

With "know-how" based on fifteen years of serving the nation's industries, Hobart gives attention to your specific battery charging needs—a motor generator designed especially for the battery it is to charge. It's fully automatic—when the required amount of charge is reached it shuts off—there is never any danger of overcharging.

Why not try Hobart on your next charger order? We promise you prompt, on-time shipment. Call, wire, or write us today! Sales and Service Offices in all principal cities.

MOTOR GENERATOR CORPORATION, BOX FLQ-49, TROY OHIO (Hobart Brothers Affiliate) Phone FE 2-1223

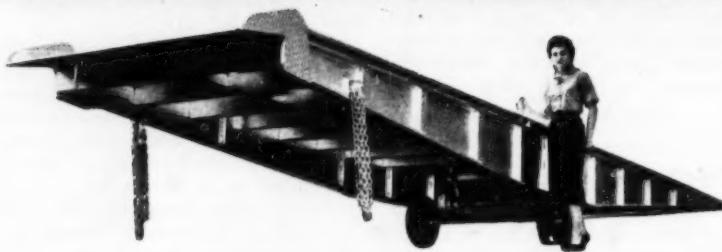


Hobart Motor Generators are contributing to the success of Purity Stores, Ltd., Burlingame, California. Grow your business with Hobart—get a series in the 23 electric trucks fully charged.

Circle No. 42 on Reader Service Card

Circle No. 45 on Reader Service Card

lite-line Mobile Yard Ramps



The dock that goes to the job will cut your loading costs

A Lite-Line Yard Ramp moves easily into position, to load or unload truck or rail car.

SAFE • RUGGED • LIGHTWEIGHT

For complete information write to

lite-line
MAGNESIUM DOCK EQUIPMENT

LITE-LINE METAL INDUSTRIES
DIVISION OF
COPPERLOY CORP.
P. O. BOX 8438 • CLEVELAND, O.

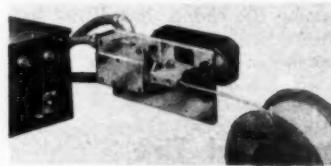
WHATS NEW IN EQUIPMENT

end truck construction designed for use on either tapered or straight flanged beams. According to the manufacturer, these crane kits make it possible for those who have the facilities to erect their own cranes at a savings. No special tools or jigs are required for assembly.

*Shaw-Box Crane & Hoist Div.,
Manning, Maxwell & Moore*

No More Glue Pots

Model CW Thermogrip applicator uses a cord-like hot melt ad-



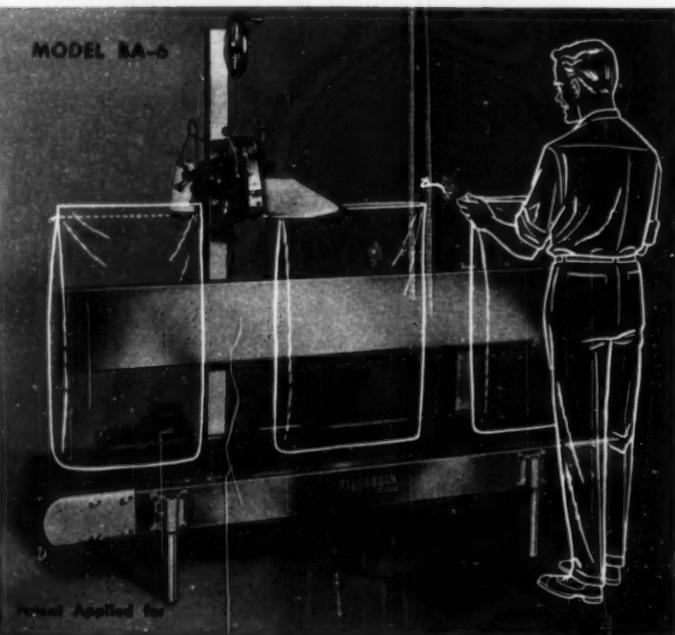
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hesive that's fed from a reel as it's used. No messy glue pots or adhesive applying parts to clean. Con-

FISCHBEIN® Automatic BAG CLOSER

Large Plant Production... Small Plant Price!

MODEL RA-6



Patent Applied for

- Bag activates and completes sewing operation automatically.
- Simple mechanical operation . . . Simple installation.
- Sews at rate of 30 feet per minute.

An automatic closing unit. The bags themselves start the sewing operation when they reach the sewing head. After sewing is completed, thread is cut automatically and sewing action stops as conveyor belt continues to move bag.

Write for details and complete catalog file of Fischbein Bag Closing Equipment.

DAVE FISCHBEIN CO., DEPT. MH
2720 30th Ave. South, Minneapolis 6, Minn.

Name _____

Firm Name _____

Address _____

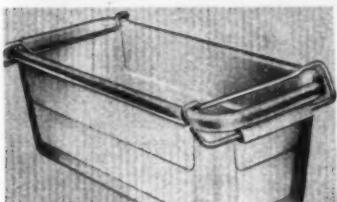
Circle No. 50 on Reader Service Card

trolled electric heating elements melt just the right amount to give instant bonding. There's no waiting period for glue to melt, and sealed packages can be handled immediately — no setting time required after gluing. This machine works as well on its side or upside down. Use it for a wide variety of gluing applications.

United Shoe Machinery Corp.

Aluminum Container

This aluminum tote pan is 24 inches long, 16½ inches wide. It is a lightweight container designed



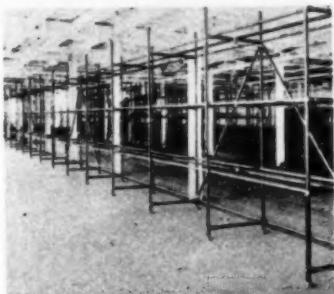
Circle No. 128 on Reader Service Card

especially for handling meats, poultry, fruits, and other food products. These pans will stack securely when full and nest when empty.

Wear-Ever Aluminum, Inc.

Racks From Pipe

Kee-Klamps are designed for construction of industrial storage racks and railings with standard plain-end pipe. The main structural pipe fits into the Kee-Klamp fitting



Circle No. 129 on Reader Service Card

and is locked into position by a set screw that grips the pipe with enough strength to hold a two ton load.

Gascoignes Industries, Inc.

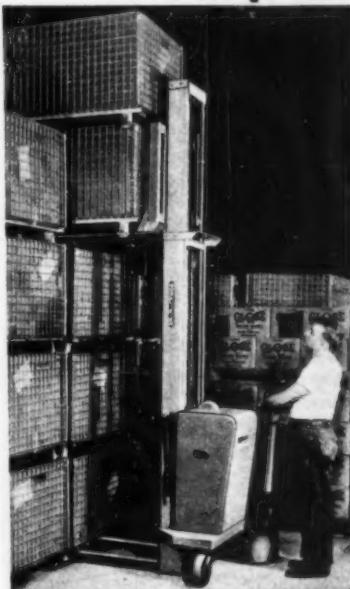
Collapsible Small-Parts Container

The Palletainer "Junior" available in two standard sizes, are sturdy, close-meshed, all-steel containers for small parts, assemblies, delicate products, etc. They are

CUTS COST, GAINS SPACE BY...

Shuttling Parts Faster Tighter, Higher...

WITH
***Walkie.
Worklifter**



Globe-Union, Inc., known primarily for storage batteries and electronic components, is also one of the nation's largest producers of roller skates.

Squeezed by rising materials handling costs and dwindling storage space, they recently put three Walkie-Worklifters to work to remedy their dilemma. The Walkies enabled Globe-Union to efficiently use the valuable air space available in the storage area.

If you, too, have expanding storage problems, chances are Walkies can increase your capacity—economically—in the same manner. Why not write for details?

GLOBE-UNION INC.

Storage Batteries • Spark Plugs • Roller Skates • Centralab Radio Products
500 EAST KEEFE AVENUE
MILWAUKEE 1 - WISCONSIN

George C. French, Jr.
Vice-President

Economy Engineering Company
4511 W. Lake Street
Chicago 24, Illinois

March 14, 1958

Dear Mr. Rhodes:
Recently, to reduce materials handling costs and gain badly needed floor space, we began using wire mesh containers for skate parts. At that time, three Walkie-Worklifters were purchased, one each for use within the punch press, plating and assembly departments.

The Walkies are used to stack the wire mesh containers five high (140") in six foot aisles, to remove them from storage and to place them on stands where they become hoppers for feeding parts to work stations.

Company officials feel the units do a materials handling job difficult to obtain from more expensive power trucks.

Sincerely,

George C. French, Jr.

* Automatic lifter and transporter. Battery operated with charger. Push-button remote control. Automatic safety brake. Over 100 model variations. Lifting ranges up to 120". Baseframe widths from 26". Heights from 78". Capacities 1000 to 2000 lbs. Prices from \$995.

Originators of materials handling equipment since 1901.

ECONOMY
ENGINEERING

4504 West Lake Street, Chicago 24, Illinois

Circle No. 84 on Reader Service Card

Circle No. 48 on Reader Service Card

For any Stenciling or Marking on

Corrugated Boxes • Wood • Metal •
Paper • Concrete • Fiber • Fabric •
Painted • Plastered • Glass • Stone
or any other porous or
non-porous surface

Specify

REYNOLDS INK

QUICK DRYING — WATERPROOF

9 Colors—Each packaged in the handy
easy-to-use 12 oz. Aerosol Container

Stenciling, color coding and identification marking have now become clean, quick and easy. Container sprays a dense, compact cone of specially formulated ink at the touch of a finger. Ink is very opaque. Dries in seconds. No smear, smudge or curtaining. Not to be confused with slow drying paints, lacquers and enamels. Easy to store. Always ready to use. No cans to open; no pots or brushes to load. No drying out, no waste, no mess. Saves time. Specify Reynolds—the original, proven best ink for any marking. A trial will convince you!

REYNOLDS INK, Inc.

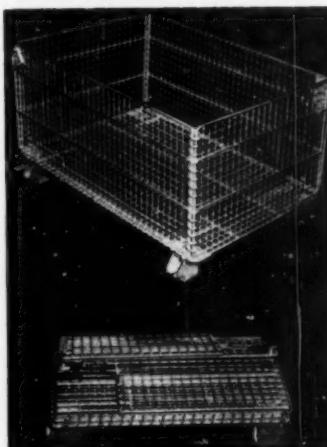
4500 EUCLID AVE. • CLEVELAND 3, OHIO



GET FULL DETAILS!
Write Today for Fully
Descriptive Bulletin
No. 58.



WHAT'S NEW IN EQUIPMENT



Circle No. 130 on Reader Service Card

made of reinforced welded steel wire mesh. Steel stacking-type legs are welded to the bottom deck. Side locks are of special steel stamped design and loss proof. When collapsed they are only $\frac{1}{4}$ of their opened size.

Union Steel Products Co.

GRIPPER® woven wire SLINGS

here's GENTLENESS for any lifting job

With a Gripper Sling, even delicate motor parts, polished stock or thin walled tubing can be moved without load damage. The smooth, broad bearing surface doesn't cut or score the load. Spiral wire construction gives the Gripper Sling complete flexibility . . . allows the sling to wrap around the load and hold it in a firm, but gentle, grip. Gripper Slings are extra safe because there's nothing to snap or tear suddenly and drop the load.

Gripper Slings, prestressed to meet load specifications, are available in standard lengths and widths with capacities up to 100,000 lbs. Special sizes, alloys or Neoprene or PVC covered slings available. Write for FREE CATALOG and name of your nearest materials handling distributor.



The Cambridge Wire Cloth Co.

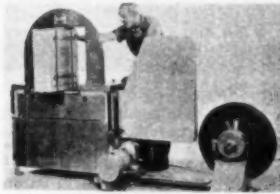
Department AF • Cambridge 4, Md.



Circle No. 49 on Reader Service Card

Circle No. 51 on Reader Service Card

Ties 17 Cases a Minute

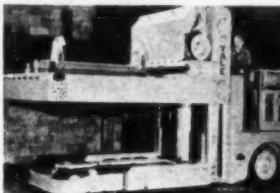


Model 2700 fully automatic flat steel strapping machine makes up to 17 ties a minute on corrugated cartons, wooden cases, etc. This machine has a built-in air lubrication system, and automatically changes tension to compensate for package size variations. It can band packages as small as 4" high x 8" wide, and as large as 22" x 20" or 15" x 16". Two sizes strapping: $\frac{3}{8}$ ", $\frac{1}{2}$ ", either light or medium gauge. Seals are formed from a coil, 1700 per loading. The machine uses 220 volt ac, and 90 psi air pressure.

A. J. Gerrard & Co.

Circle No. 131 on Reader Service Card

Die Handler



This electric-powered die handling lift truck can end load or side load. Its capacity is 60,000 pounds. Bollard extensions are designed into the pusher bar, are put into place manually when extra thrust beyond the dimensions of the truck platform is needed for proper placement. The extensions speed die handling by eliminating the necessity

Looking For A Way to cut small parts handling costs?



EEZY-STAK BASKETS STOP EXTRA HANDLING, SPEED PARTS PROCESSING . . . REDUCE COSTS!

Here's how one manufacturer solved costly, time-consuming, small parts handling. Using EEZY-STAK standard wire baskets, a complete series of parts transfer operations was eliminated. Result: Five production processes now performed in one basket—degreasing, drying, pickling, rinsing, cyaniding—plus storage, without parts removal! EEZY-STAK baskets have the exclusive, patented interlock handle, for easy stacking and compact storage. Open mesh construction. Full visibility . . . quick drainage . . . clean! From initial production to final assembly, EEZY-STAK baskets put small parts handling on an economical, low-cost basis. Cut 'Costs! Investigate the advantages of EEZY-STAK baskets for your plant!

Write today for Bulletin No. B-54 to
Wire & Iron Products Inc., 1720 Sixteenth Street, Detroit 16, Michigan.



NEW YALE WAREHOUSER BUILDS PROFITS 3 WAYS

(1) 24-volt system speeds operation cycles (2) Advanced design increases operator efficiency (3) Rugged construction means more time on the job

MORE POWER — full 24-volt battery provides faster lift and travel — increases variety of hydraulic attachments that may be used. Conventional 12-volt models also available.

LESS DOWNTIME. All components in one compartment that opens wide . . . to minimize maintenance time.

LASTING DURABILITY. Frame, chassis, outriggers and channels are a single welded unit. Ruggedness increases ride stability.

EXTRA PROTECTION. Access doors of components hinged in positions of protection from bumping — no sprung doors.

BETTER VISIBILITY. Operator position and compact design provide better visibility.

CONVENIENT CONTROLS — steering wheel with directional compass and contoured handle. Convenient pistol-grip controls.

NARROW AISLE MANEUVERABILITY. Operates in aisles as narrow as 6' wide.

CAPACITIES: 2,000, 3,000 and 4,000 lbs. Straddle and Extend-A-Fork models.

Contact your Yale representative—or write for brochure #1535H. The Yale & Towne Manufacturing Co., Yale Materials Handling Division, Philadelphia 15, Pa., Dept. RT-1H.

YALE
INDUSTRIAL LIFT TRUCKS
TRACTOR SHOVELS - HOISTS
YALE & TOWNE

GASOLINE, ELECTRIC, DIESEL AND LP-GAS INDUSTRIAL LIFT TRUCKS • WORKSAVERS
WAREHOUSERS • HAND TRUCKS • INDUSTRIAL TRACTOR SHOVELS • HAND, AIR AND ELECTRIC HOISTS

Circle No. 50 on Reader Service Card

What's New In EQUIPMENT



FORK TRUCK

OUTRIGGER TRUCK

LOW LIFT PLATFORM TRUCK

PALLET TRUCK

TOWING TRACTOR

'GRIP-ALL' TRACTOR

Which MOTO-TRUC "Walkie" Would You Choose For Your Handling Job?

Naturally, you would choose the model that provides the most efficient handling. Your decision will be a simple matter of cost vs. performance.

To assure efficient handling, MOTO-TRUC has developed a wide range of models to meet every handling need. With more than 50 standard and special models to choose from, you can always be sure of outstanding performance.

Equally important, MOTO-TRUCS cost less to buy and operate. You can buy MOTO-TRUCS at prices well below those of competitive models. Yet, in spite of their lower initial cost, Moto-Trucks cost less to operate and maintain.

As the world's largest "Walkie" truck manufacturer, MOTO-TRUC offers you more handling performance for every handling dollar.

When you're buying a money-saving MOTO-TRUC let your local MOTO-TRUC handling engineer help you select the most efficient model for your job.

* Rider type Moto-Trucks are also available in these same basic models.



WRITE FOR MOTO-TRUC'S GENERAL CATALOGS—56W on "Walkie" models; 56R on small rider models.

Largest Exclusive Manufacturers of
"Walkie" and "Ride-A-Man" Trucks

The MOTO-TRUC Co.
1926 EAST 59TH STREET • CLEVELAND 3, OHIO

Circle No. 52 on Reader Service Card



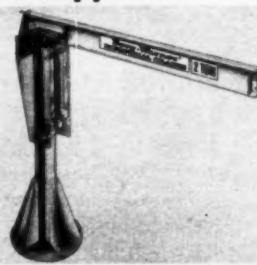
for close-up maneuvering of the truck platform when putting a die in place. The bollards are hydraulically controlled to move dies sideways across the truck's 84-inch-wide platform. They can be controlled individually or simultaneously.

*Yale Materials Handling Div.,
The Yale & Towne Mfg. Co.*

Circle No. 132 on Reader Service Card

Jib Crane is Self-Supported

The Jib Master is a self-supported jib crane that can be rotated 360 degrees to provide hook coverage over a large floor area. Construction details include a heavy steel floor plate, heavy-wall seamless tubular column, and 6 wide flanges. These elements are welded together to form a rigid frame. The Jib Master head features welded side plates. A precision tapered roller thrust bearing and two side rollers (each having two precision ball bearings) provide free boom



BEST BY TEST

New JIFFY PADDED SHIPPING BAG
with CLUPAK* OUTER LINER

Almost

DOUBLED IN STRENGTH



Comparison tests of the new JIFFY BAG, made with Clupak Outer Liner—and shipping bags made of plain kraft—SHOW AN INCREASE OF TEAR RESISTANCE from 125.7 grams to 232.0 grams.

This gives you vastly increased protection—at NO INCREASE IN PRICE!

Send for your free samples—compare—and be convinced!



JIFFY MANUFACTURING COMPANY

Hillside, N. J.

Circle No. 53 on Reader Service Card

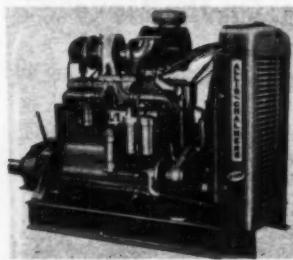
MATERIAL HANDLING ILLUSTRATED

rotation. Rollers are located at a point where stresses between stationary and revolving members of the Jib Master are balanced and the bending moment of the column is at a minimum. The crane is designed for use with either a chain block or an electric hoist. Various combinations of electrification are available. The Jib Master is available in capacities to 6 tons, boom lengths to 20 feet.

Borg-Warner Industrial Cranes

Circle No. 133 on Reader Service Card

Heavy Duty Diesels Added to Line



Two heavy duty diesel engines have been added to this manufacturer's line. The 21000 engine (illustrated) is turbocharged and develops 340 hp at 2000 rpm. The other is the 16000 naturally aspirated engine developing 230 hp

at 2000 rpm. Both are 6 cylinder, 4 cycle, in-line engines with $5\frac{1}{4}$ inch bore, $6\frac{1}{2}$ inch stroke, 844 cu. in. displacement, and a 14.5 to 1 compression ratio. With the exception of the turbocharger and its related parts used on the 21000, all engine components are interchangeable. Basic weight of the engines is about 3000



...WHEN THE PLATFORM TRUCK IS A MAGLINER! Magliner's light metal construction makes them easier to push, handle, steer and stop. They're eager to roll...nimble to maneuver. A man and his Magliner just naturally move faster...handle more loads at less cost. *Specifications:* Rugged one-piece tops; reversible handles; rubber tires. Protective rubber bumpers optional. Capacities to 1,500 lbs.

Write today for illustrated data sheets showing complete range of styles and sizes—Magline Inc., P. O. Box 244, Pinconning, Mich.

Canadian Factory: Magline of Canada, Ltd., Waterloo, Ontario

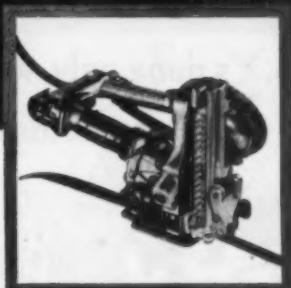
MAGLINER MAGNESIUM PLATFORM TRUCKS

Circle No. 54 on Reader Service Card

SPRING 1959

eat peas
with a knife?

...YOU'RE
BETTER
OFF WHEN
THE RIGHT
TOOL IS
ON THE JOB



One of the complete line of Acme Steel powered strapping tools—the Steel-strapper (A4) tensions, seals, cuts...all with power.

USE ACME STEEL STRAPPING, TOOLS AND IDEAS—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help solve your handling problem simply and economically. Write Dept. FEZ-49A, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

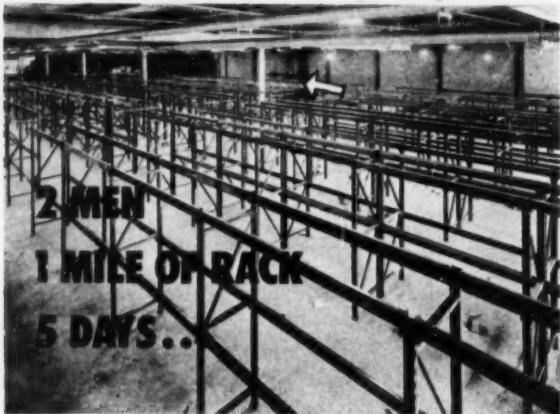
ACME
STEEL

STEEL STRAPPING

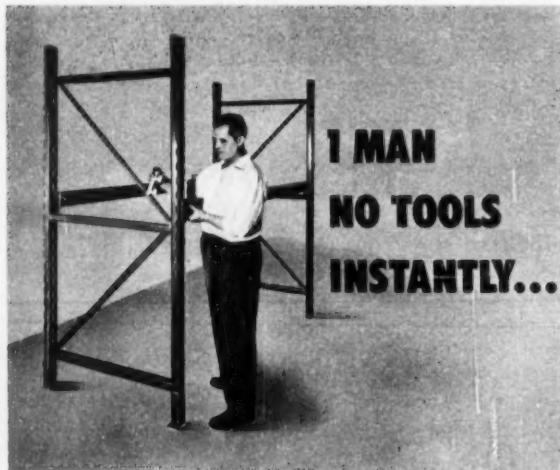
Circle No. 55 on Reader Service Card

43

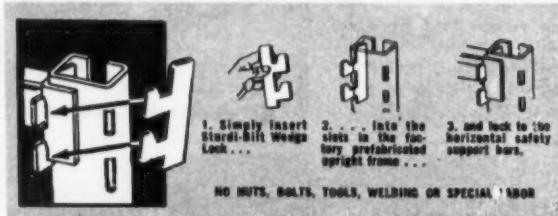
How's this for fast assembly?



...and for adjustability?



**...it's done only with Sturdi-Bilt
"Float Wedge Construction"**



RACKS FOR EVERY STORAGE NEED
Send for NEW catalog.

E Sturdi-Bilt

U.S. Patent Nos. 2760650, 2815130

Circle No. 56 on Reader Service Card

44

What's New In **EQUIPMENT**

pounds. This gives a weight-to-horsepower ratio of approximately 9 to 1.

Engine-Material Handling Div., Allis-Chalmers Manufacturing Co.

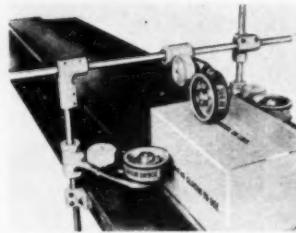
Circle No. 134 on Reader Service Card

Mark Packages On-the-Move

You can imprint codes, dates, symbols, etc. on products as they move along conveyor lines with the Force Versa-Matic, Model 4 ARC. It uses interchangeable rubber type, and can print impressions up to 4 inches wide and 18 inches long. Can be used for return action on individual items, or continuous action on lengths of material. You can mount it on top or side of conveyor line, or as a separate unit. Inking and marking parts can be changed without tools.

William A. Force & Co.

Circle No. 135 on Reader Service Card



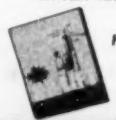
35 new models!
E-Z LIFT

This complete new line of Lift Trucks has simply "outdone" all competition. They are built the sturdiest and priced lowest!! Available in battery operated or hand operated models.

1500
lb.
cap.

\$297.00
MODEL B

COMPLETE WITH HEAVY DUTY 12 VOLT BATTERY AND BUILT-IN CHARGER.



FREE—For complete new catalog and price list,
WRITE DEPT. H

CROWN CONTROLS CO. INC.

Handy Avenue • • New Bremen, Ohio

Circle No. 57 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Transceiver Designed To Eliminate Signal Losses



No additional antenna or other accessories are required with the CUB-1/MT-1 Citizens Band base station transceiver. The manufacturer says that it will provide better performance than has been possible under regulations governing the Class B citizen's band. It operates at 465 megacycles. Full power is delivered to the antenna because the antenna is built into the remote transceiver.

Vocaline Co. of America, Inc.

Circle No. 136 on Reader Service Card

Tractors Have New Gear Drive



The gear drive is constructed as a single piece unit, with

A series of electric tractors has been redesigned and improved, according to the manufacturer. The former chain drive method has been replaced by a system of totally enclosed gears revolving in a constant bath of oil.



New low-slung caster

Here's a 3" diameter wheel caster with a conservatively rated load capacity of 500 lbs. each, or 2000 pounds per set of four.

Especially desirable where low overall height is important, the caster raises load only 4 5/16" above the floor. It is designed for heavy business machines, and other heavy equipment that needs to be moved only occasionally.

Unusual strength stems from the very wide (1 13/16") tread of the "Canaphin" phenolic-canvas molded composition wheel. The new wheel is mounted in a super heavy Series "S99" swivel caster. For further information, see your distributor or write to:

THE
BASSICK COMPANY
BRIDGEPORT 5, CONN.
IN CANADA:
BELLEVILLE, ONT.



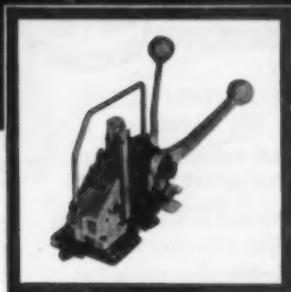
Bassick
A Division of
STEWART-WARREN CORPORATION

Circle No. 58 on Reader Service Card

SPRING 1959

think there's
a better way
to pack or ship
your product?

WE'VE
GOT AN
IDEA
THAT CAN
PROVE
YOU'RE
RIGHT!



One of the complete line
of Acme Steel strapping
tools—the Steelstrapper
(200 series). Does all 3
jobs . . . tensions, seals,
cuts.

**USE ACME STEEL STRAPPING, TOOLS
AND IDEAS**—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make product handling ideas work better and with greater economy. Write Dept. FEZ-49B, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

**ACME
STEEL**

STEEL STRAPPING

Circle No. 59 on Reader Service Card

Circle No. 60 on Reader Service Card



Weigh it as you lift it
with the MARTIN-DECKER
LIFT TRUCK Weight Indicator



KNOW THE WEIGHT OF EVERY LOAD

As you lift it!

Here's the accurate, convenient, safe low-cost way to prevent overloads—totalize truck car loadings—simplify weight inventories—insure floor weight distribution V-25

Write for Descriptive Bulletin.

MARTIN-DECKER CORP.
HOME OF THE WEIGHT INDICATOR • LONG BEACH, CALIFORNIA



PALLET LOAD

MOBI

... Anytime
... Anywhere

WITH MAGLINER MAGNESIUM
PALLET DOLIES ON THE JOB!

No need to halt work,
delay shipments, block off
loading areas waiting for
power equipment. Magliner
Pallet Dollies keep stock
on the move between dock and
carrier . . . plant and warehouse—
wherever, whenever it's needed!
Magnesium light for easy one man
handling. Put Magliner Magnesium
Pallet Dollies to work for you!

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Magline Inc.
P. O. Box 504
Pinconning, Michigan

MagLiner
MAGNESIUM
PALLET DOLIES

Canadian Factory: Magline of Canada Ltd., Renfrew, Ontario

Circle No. 61 on Reader Service Card

46

What's New In **EQUIPMENT**

motor, transmission, and drive wheel mounted in a balanced vertical column. Power is furnished by a specially designed high torque motor and a 24-volt battery.

Barrett-Cravens Co.

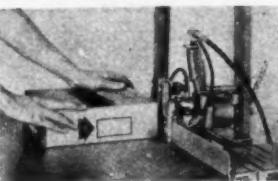
Circle No. 137 on Reader Service Card

Staples Boxes From the Outside

Every push of a box against the automatic trip bar of the Side-strike stapler (model D14ADS-1) drives a staple. This air-operated machine seals filled cartons from the outside with 1½-inch wide-crown staples. You can adjust head height without tools, or rotate the head for vertical or horizontal stapling. The machine comes with a polished work table mounted on a welded steel frame. It can be used for sealing partial overlap, full overlap, telescope, small regular slotted containers, five-panel folders, and similar boxes from the side.

Bostitch

Circle No. 138 on Reader Service Card



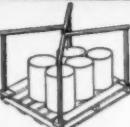
Wait a minute!
adding to
your warehouse?

Has it ever occurred to you
that you may have sufficient
space—if you can put
it to proper use?

Let PALTIER trained Materials Handling Engineers take a look. With properly selected equipment and flow of materials your present storage area may be adequate. Storage equipment COSTS LESS than NEW FLOOR SPACE!

PALTIER STORAGE SYSTEMS are designed jointly by industrial architects, structural and materials handling engineers.

Write
today to . . .



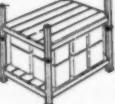
Tiering Pallet Hardware
for standard pallets



Drive-In Racks
for Bulk Storage



Portable Stacking Racks
for practically every use



Adjustable and Fixed
Pallet & Skid Racks

THE PALTIER CORPORATION

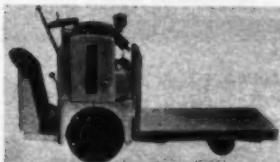
1725 Kentucky Street • Michigan City, Indiana

DISTRIBUTORS IN PRINCIPAL CITIES

Circle No. 62 on Reader Service Card

MATERIAL HANDLING ILLUSTRATED

Platform Truck for Indoor and Outdoor Use

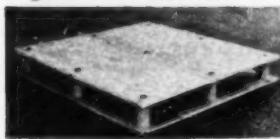


The Model 75 platform lift truck has a 7500 pound capacity for handling skids or racks. It is designed for use either indoors or outdoors, with a no-spin differential to prevent traction loss and 7-inch-wide load wheels for extra footing. It has a 9 inch hydraulic power platform lift.

Truck-Man Lift Trucks

Circle No. 139 on Reader Service Card

Plywood Pallet



This pallet, called Dura-Block bolted pallets, has solid plywood decks and bolted pipe spacers. They are said to weigh 30 to 70 percent less than conventional units. Spacers are standard 2-inch O.D. boiler tubing bolted into position with $\frac{1}{2}$ -inch or $\frac{3}{8}$ -inch bolts. The spacers have a slight bevel that grips the inside faces of the plywood decks, controlling lateral movement in case of contact with forks.

Carroll's Box & Pallet Co.

Circle No. 140 on Reader Service Card

BECKER
Under
Running
Cranes

**Cut
Handling
Costs**

- Cut the cost of overhead handling with a new BECKER under running crane. Engineered to match the finest equipment in your plant, BECKER cranes not only cost less to buy, but, their fine workmanship and rugged construction assure longer service and far lower maintenance costs.

Standard units are built in capacities up to 10 tons and for spans up to 48'—both hand and power operated. For difficult handling problems, BECKER engineers are available to study your needs and design a special crane to meet your individual requirements.

Write for This New Crane Catalog



We welcome inquiries on specially engineered cranes and monorail equipment.



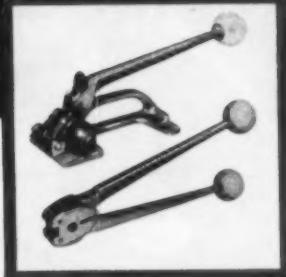
Becker Crane & Conveyor Co.
4900 RIDGE ROAD • CLEVELAND 9, OHIO

Circle No. 63 on Reader Service Card

SPRING 1959

you wouldn't
eat spaghetti
with a toothpick-

**WHY
HANDICAP
PRODUCT
HANDLING
WHEN IT
CAN WORK
SO WELL
SO EASILY?**



From the Acme Steel complete line of strapping tools—Stretcher (BS) and Sealer (C1). Low cost team tools.

USE ACME STEEL STRAPPING, TOOLS AND IDEAS—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make handling or shipping your product so easy and economical. Write Dept. FEZ-49C, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

ACME STEEL **STEEL STRAPPING**

Circle No. 64 on Reader Service Card

Circle No. 65 on Reader Service Card

**NEW! ROWE
Mechanical
ADJUST-A-DOCK**

- Truck Actuated
- Counterbalanced
- 27" Lip Travel



**Model: TAL
20,000 Lb.
Capacity**

The TAL "Adjust-A-Dock" will improve freight transfer, provide safer operation and reduce manual labor. Completely powered by the freight carrier, the platform deck is lowered to the truck bed from its raised, standby position as the truck is backed into the truck lever arms. The platform adjusts to the bed during freight transfer. When the truck pulls away, the platform automatically returns to the "up" position. Its rugged construction and basic operation assures minimum maintenance and long life.

See us in Booth 2009 at the Material Handling Convention in Cleveland — June 9-12.

- The "Adjust-A-Dock" is available in six models — for mounting in front of an existing dock, or for recess installations.
- Write for detailed engineering bulletin.
- • •



ROWE METHODS, Inc.

2534-F DETROIT AVE. • CLEVELAND 13, OHIO

Light TROUGH-BELT CONVEYORS



TR Series conveyor without undercarriage for permanent or semi-permanent installations.

Stationary or portable. Steel, Aluminum, or Stainless Steel. 12" or 18" belt. Lengths as required. Horizontal or incline operation. Low cost. Low maintenance.

Send for Bulletin 105.

PHONE 1000

**NEW LONDON ENGINEERING CO.
NEW LONDON, WIS.**

Circle No. 66 on Reader Service Card

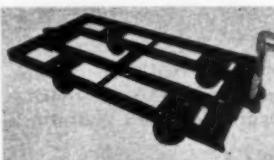
**What's New In
EQUIPMENT**

Rack Trailer

This flat skeleton bed trailer is used to hold racks being moved, or used in storage, or for line feeding on wheels. It is also suitable for handling bins, or palletized and loose loads when a solid steel deck of safety plate is added.

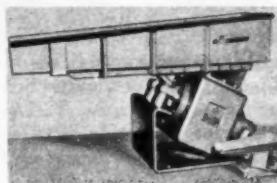
Midwest Precision Corp.

Circle No. 141 on Reader Service Card



**Vibrator Feeder Moves
10 Tons an Hour**

Seven trays are available with this unit designed for medium to heavy feeding of batch weighing scale hoppers, processing mills, pulverizers, driers, furnaces, and belt conveyors where accurate control is essential. The spring sys-



LEADING FACTORIES, mills and institutions, after fairly comparing these TOUGH BABIES, now use them as standard equipment. Light, strong, easy-stacking or snug-nesting — true space misers that hold a heap and wear till the cows come home!

Expertly constructed, with side walls of

VULCANIZED FIBRE

ALSO

a complete line of FIBRE Box Trucks and Disposal Cans

• Write for illustrated Catalog

Federal FIBRE CORPORATION

3704 Tenth St., Dept 7 Long Island City 1, N. Y.

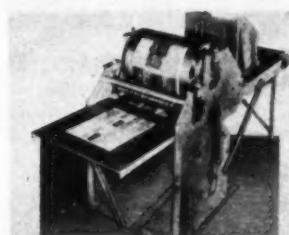
Circle No. 67 on Reader Service Card

tem is made of glass fiber reinforced epoxy laminate. The electro-permanent magnetic drive needs no rectifier. The design is compact—the spring system and the electrical and drive elements are enclosed.

Eriez Manufacturing Co.

Circle No. 142 on Reader Service Card

Imprints Boxes While They're Flat

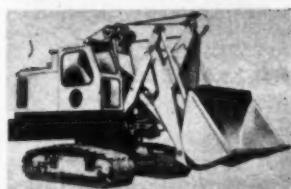


You can save money and reduce carton inventory by printing corrugated boxes while they're knocked down with the Pannier automatic knock-down corrugated box printer. Use this machine either to print code, product identification, etc. on a day-to-day basis, or to print one at a time to suit production line filling. It can even be used to print the entire box. The machine handles cartons up to 21 inches wide by 32 inches long, at speeds up to 2400 an hour. It can be installed anywhere in your plant that's convenient for your operations—whether in the warehouse where cartons are stored, or in the packaging line. A quick-wash ink reservoir makes it easy to change colors.

Pannier Corp.

Circle No. 143 on Reader Service Card

Stand-Still Digger

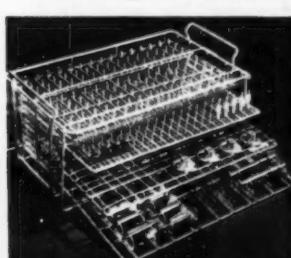


The fast swing of an excavator turntable and a seven-foot independent crowding action permit the Koehring Skooper to go through numerous complete digging and loading cycles while standing in one place. Virtual elimination of track movement, plus smooth swing and crawl action, cuts operator fatigue and permits continuous full production. It is available with buckets ranging from 1½ to 2½ yards capacity.

Koehring Division, Koehring Co.

Circle No. 144 on Reader Service Card

Wire Baskets For Handling Precision Parts

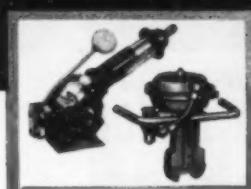


faces during handling, processing, washing, degreas-

Wire baskets for handling precision parts features wire shelves or trays that may be removed from the sides. "Multi-Shelf" carriers are designed to suspend individual small precision parts for protection of exposed surfaces during handling, processing, washing, degreas-

heavy-duty
shipping problem?

EVEN JUMBO
SHIPMENTS
CAN BE EASY
TO HANDLE



From the Acme Steel complete line of powered strapping tools—Stratcher (B1R) and Sealer (C8). For heavy duty service.

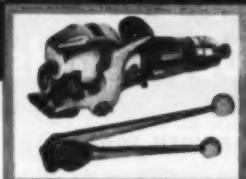
WITH ACME STEEL STRAPPING, TOOLS AND IDEAS—to reinforce, tie, bale, unitize, bundle, brace carloads—help handle even the heaviest shipping problem. Write Dept. FEZ-49D, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

ACME
STEEL

STEEL STRAPPING

penalized by the
wrong tools?

LET THE
RIGHT TOOL
EXPEDITE
PRODUCT
HANDLING



Manual or powered, choose Acme Steel tools for any strapping need... Powered Stratcher (B1B) and Manual Sealer (C3).

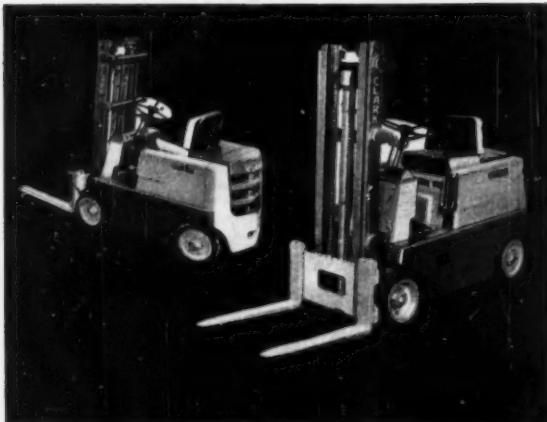
USE ACME STEEL STRAPPING, TOOLS and IDEAS—to unitize, close, bundle, reinforce, bale, tie, brace carloads—help make your product handling so much easier and far more economical. Write Dept. FEZ-49E, Acme Steel Products Division, Acme Steel Company, Chicago 27, Illinois.

ACME
STEEL

STEEL STRAPPING

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Circle No. 70 on Reader Service Card



A Clarklift will lower your costs GIVE 30% MORE EFFICIENCY!

- * You'll get over 30% more efficiency with a Clarklift
- * You'll get automatic transmission . . . simplified, directional controls
- * You'll get picture-window visibility . . . maintenance in minutes
- * You'll get more work done with a Clarklift . . . with lower operating costs

Judge for yourself. Send today for the new *Clarklift* features booklet. Simply use the reader service card, or write direct to:



Industrial Truck Division
CLARK EQUIPMENT COMPANY
BATTLE CREEK 69, MICHIGAN
CLARKLIFT is a trademark of Clark Equipment Company

**SPEED LOADING
WITH NEW B &
P
Magnesium Dockboards**

EXCLUSIVE ONE PIECE CURB WITH FORGED ENDS

Lighter, stronger B&P Magnesium dockboards get the job done faster, easier and at less cost. All dockboards are heat treated for stress-relief after welding. B&P offers these advantages—one-piece stringer with forged ends, full-length hand grips, yellow curb markings, crowned contour, beveled edges, safety tread, wide range of sizes for every loading need.

SEND FOR FREE LITERATURE on long-lasting Magnesium dockboards, hand trucks and other mobile handling equipment by B&P.



BROOKS & PERKINS INC.
1934 W. Fort St. • Detroit 16, Mich.
Dealers in Principal Cities MH-21

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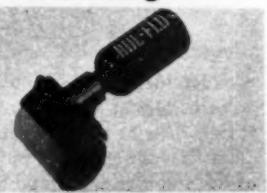
What's New In **EQUIPMENT**

ing, storage and assembly. Parts are loaded on wire shelves. Number of shelves may be varied, depending on size of the parts being handled. The baskets are fabricated to individual requirements. However, two standard sizes are available: O.D. 13 $\frac{3}{8}$ " x 21" x 8" and O.D. 11 $\frac{1}{4}$ " x 18" x 8 $\frac{1}{2}$ ".

Mid-West Wire Products Co., Inc.
Circle No. 145 on Reader Service Card

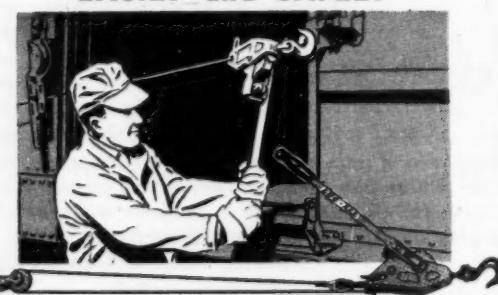
Stencil Roller is Self-Inking

Here's a stencil ink roller designed to put an end to a major shipping room woe. The Rol-Flo roller does away with brushes and rollers requiring inking pads. The ink supply is held in a plastic squeeze bottle that also serves as the handle. A special patented valve action feeds just the right flow of ink to give perfect impressions regardless of surface porosity.



Diagraph-Bradley Industries, Inc.
Circle No. 146 on Reader Service Card

LUG-ALL® CAR DOOR PULLERS OPEN AND CLOSE BOX CAR DOORS EASILY and SAFELY



FEATHERLIGHT-RATED PULL 3000 LBS.

MODEL HDR 12 \$39.75 MODEL HDR 30 \$56.00
(WEIGHS 11 LBS.) (WEIGHS 15 1/2 LBS.) FOB FACT.

The tested and user approved LUG-ALL Car Door Puller enables one man to do the job safely and quickly. Your men will like these units as they are lighter and easier to handle than any other equipment available for this work.

Features

STURDY CONSTRUCTION—Rugged main frame protects drum and ratchet teeth. 133 strand aircraft cable for maximum strength and flexibility.

- Interlocking pawl system — cannot slip.
- Only two springs — both of stainless steel.
- Oiled-for-life bearings — no service required.
- Open construction — easy removal of mud, sand or ice.

ASSURED SAFETY—LUG-ALL Car Door Pullers are tested to 100% overload. The "safety handle" bends before the unit is severely overloaded.

LONG REACH—The Model HDR 30 will open 50 ft. box cars from the end of the car.

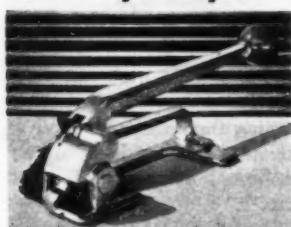
VERSATILE—Rig double or single cable.

WRITE TODAY FOR MORE INFORMATION

THE LUG-ALL COMPANY, HAVERFORD 30, PA.

Circle No. 72 on Reader Service Card

Tension Steel Strapping the Easy Way

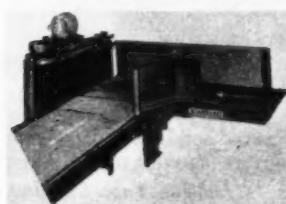


You can stop worrying about operator fatigue in manual strapping operations with the Stanley "O" tensioner. This machine has unlimited take-up. It's lightweight and sturdy, easy to use, and takes just a few strokes in most cases. Operates in any position and any direction — right or left hand. Seals are applied behind the tensioning wheel to cut overlap to a minimum. Several models available for different types of strapping.

*Stanley Steel Strapping,
Div. of The Stanley Works*

Circle No. 147 on Reader Service Card

Air Line Diverter



A compact and efficient right angle transfer unit is available for diverting various sizes and types of commodities and baggage. The unit consists of a feed and

5 WAYS TO CUT SOLID TIRE REPLACEMENT COSTS...



GET THE RIGHT TIRE FOR THE JOB

1 For efficiency and economy, always specify solids according to vehicle, loads and normal operating conditions.

AVOID STANDING LOADS AND OVERLOADS

2 Flat spots cause severe vibration and separation of rubber tire from rim. Overloads result in rapid wear.

KEEP FLOORS CLEAR OF DEBRIS

3 Clean traffic lanes mean savings . . . cuts and bruises from scrap are a major cause of premature tire failure.

INSPECT TIRES DAILY

4 Frequent inspection and prompt removal of imbedded objects costs less than frequent tire replacement.

SWITCH TO MONARCH SOLIDS

5 Made from Compound T-48C, the toughest natural rubber stock developed to date, MONARCH industrial solids give superior performance . . . more ton-miles per dollar invested.



THE
MONARCH
RUBBER COMPANY
473 LINCOLN PARK
HARTVILLE, OHIO

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- 2353 N. California Ave., Chicago
- Warehouse: Reno, Nevada

Portable yet rugged . . . Now ALUMINUM gravity conveyors by Buschman make it easy to set up efficient systems "on the spot" for efficient handling in all types of industry. "QUICK-EEZ" Coupling—both ends the same—keeps your system flexible for cost cutting—customized handling. Rearrangement is faster—more economical.

NEW Bulletin 19 gives complete specifications on Buschman ALUMINUM Wheel & Roller Conveyors. Write today!

C-907-EWB



THE E. W. BUSCHMAN CO.
4552 Clifton Avenue Cincinnati 32, Ohio

CONVEYORS FOR EVERY INDUSTRY

Circle No. 73 on Reader Service Card

SPRING 1959

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Reduce Material Handling Costs!



- SAVES SPACE—pulls flat for compact storage when not in use.
- SAVES TIME—sets up instantly...no staples, no tape, etc. required.
- SAVES SHIPPING COSTS—shipped flat for low freight rates.
- SAVES MONEY—costs less than 45¢ per box and they're REUSEABLE!
- RUGGED—double walled, corrugated construction gives extraordinary stacking strength, saving space in storage or warehousing. Double bottom will support all the weight a man can carry.

WRITE TODAY FOR PRICES ON 100 TO 5000 QUANTITIES.

THE PAIGE COMPANY
114 East 32nd Street
New York 16, N.Y.

Down goes a Magliner
DOWN GO LOADING COSTS!

And they'll stay down with Magliners on the job! Magliners speed loading, eliminate dock congestion . . . get extra work from power trucks and other loading equipment. Magliners are magnesium-light—easy to put down . . . easy to move. No heavy lifting . . . no injury hazards. Men, loads and equipment move fast, sure, safe. Magliners are magnesium-strong, too . . . built to take it . . . safely handle loads up to 20,000 lbs. Low initial cost. Less maintenance. Dependable long-life service. Economy and cost-savings right down the line! Put all these advantages to work for you. Put Magliners on your dock!

Write for Bulletin DB-204
MAGLINE INC., P.O. Box 84
PINCONNING, MICHIGAN



Canadian Factory: Magline of Canada, Ltd., Renfrew, Ontario

Circle No. 76 on Reader Service Card

What's New In EQUIPMENT

takeaway belt set at right angles to each other. A short vertical belt is mounted across the end. This vertical belt assists in turning the commodity and in making the transfer complete. Each belt is separately driven to eliminate complicated drive arrangements and maintenance problems.

Standard Conveyor Co.

Circle No. 148 on Reader Service Card

Charting Tool

The GP Pen, a charting tool, has been designed to make fast and accurate measurement of lines on charts, layouts, and graphs, without smudged ink lines or any irregularities. Pencil-size and light in weight, it also features a cutting bar which enables the chartist to automatically cut off the tape at a desired point. The manufacturer says that uniform lines of solid color on pattern tapes can be applied with greater speed than with a pen or pencil.

Labelon Tape Co., Inc.

Circle No. 149 on Reader Service Card

LIGHTWEIGHT Handy Man GOES ANYWHERE

HYTROL MODEL R
ALUMINUM CONVEYOR



Sizes from 10 to 21 feet, 12" belt, reversible, truss-designed for heavy loads. Accessories: Wheel and floor stands, power feeders, roller mounting, troughing attachment.

Write for your Hytrol Catalog



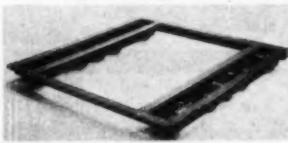
HYTROL Conveyor Co. INC.

1963 S. 54th Street

Milwaukee 19, Wis.

Circle No. 77 on Reader Service Card

Heavy Duty Pallet Dolly



Loading and unloading of trailer trucks and freight cars are simplified by this pallet dolly. As a result, expensive fork truck

equipment is not tied up. Capacities range up to three ton. Heavier loads can be handled by adding more rollers. Large ball bearing rollers provide early rolling and floor protection. Units are made with rounded corners to reduce damage to equipment. The dolly facilitates heavy machinery and equipment movements where a low height and heavy load must be handled.

R-B Mfg. Co.

Circle No. 150 on Reader Service Card

Industrial Class D Radio



The TR325 industrial mobile phone has been type accepted by the FCC for licensing as a Class D radio station in the new high frequency Citizens Band, 26.965 - 27.225 megacycles. The TR325 is a completely self-contained radio station that can be installed on a vehicle or boat, as well as at fixed locations. It can be operated from either a 6- or 12-volt battery or from 117 volts AC.

Kaar Engineering Corp.

Circle No. 151 on Reader Service Card

New low-cost way to set up a department, enclose areas... change plant layout



WIPCO MOVEABLE WIRE PARTITIONS

NO SPECIAL TOOLS... NO SPECIAL CREWS NEEDED—your own men set them up, relocate them... at less than the cost of wood framing and wire netting! Everything you need—Standard panels plus all accessories (doors, windows, top panels, bars, braces, etc.)—available immediately from factory stock. Made of tough, machine woven steel wire, Wipco Partitions protect areas against theft and loss, permit ventilation and visibility... economical to maintain. For firm price, send free hand sketch of areas to be enclosed.

Write Today for Bulletin P-55

Wire and Iron Products, Inc.,
1721 Sixteenth St., Detroit 16, Mich.



Circle No. 78 on Reader Service Card

SPRING 1959

Made
for
each
other



New C & D AutoReg® Silicon Chargers plug into any standard single-phase, 15-amp, 60-cycle, 110 or 220-volt convenience outlet. Wall- or battery-mounted, AutoReg models charge any lead-acid storage batteries up to 660 amp-hrs.

New C & D AutoReg® silicon chargers—perfect power-mates for C & D batteries—plug right into standard electrical outlet. If the expense of rewiring has prevented you from taking advantage of modern material handling methods employing battery-electric trucks in the past... here's the new key to low-cost carrying efficiency for any size plant, warehouse, or shipping operation.

New C & D AutoReg® chargers—using a tiny silicon rectifier as the heart—are compact and automatic. The chargers plug into any standard electrical outlet. Simply turning on a timer places the charger in operation. You can walk away and forget it. No adjustments to make. No maintenance.

Powerful C & D Slyver-Clad® batteries—built to give extra muscle to your motorized hand trucks—are designed to give you long, dependable service. Coupled with the new, automatic C & D AutoReg charger, they represent the perfect power-mates for top efficiency in your material handling operation.

C&D
AutoReg®
Silicon Chargers

Write for detailed information:

Bulletin AR-100—describing new C & D AutoReg Silicon Chargers...

Bulletin IT-527—describing time-tested Slyver-Clad C & D Batteries.



Since 1906

C & D BATTERIES, INC.
of Conshohocken, Pa. ... Attica, Ind.

Sales and Service Offices in Principal Cities from Coast to Coast

Manufacturers of *Slyver-Clad*® Industrial Batteries

PLASTICELL and **PLANONIC**® Batteries for Communications, Control and Auxiliary Power • Producers of *Aerolyte*® Silicon Chargers

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Circle No. 85 on Reader Service Card



Now! Snail's pace to top speed ...NO JARS, NO JOLTS!

Clark's new Electric fork truck delivers smooth acceleration . . . provides the exact amount of power necessary for ramp and dock board work, for congested areas, when inching or stacking high loads. Clark's infinitely variable speed control delivers torque in just the right amount to suit working conditions . . . gives your driver perfect control of his truck at all times for maximum safety and efficiency.

For full details and specifications on the all-new Electric Clarklift, simply circle the reader service card.



Industrial Truck Division
CLARK EQUIPMENT COMPANY
BATTLE CREEK 69, MICHIGAN

CLARKLIFT is a trademark of Clark Equipment Company



POTDEVIN

Label Paster

Time savings of 30% and more with unskilled operators makes your POTDEVIN Label Paster quickly pay for itself. No adjustments required for varied shaped labels. Accurate control of adhesive minimizes waste and assures clean, neat labeling.

Available in 6", 8½", 12" and 18" widths.



POTDEVIN MACHINE CO.
266 North Street • Teterboro, N. J.

Designers and manufacturers of equipment for Bag Making, Printing, Coating, Laminating, Gluing and Labeling

Circle No. 80 on Reader Service Card

What's New In **EQUIPMENT**

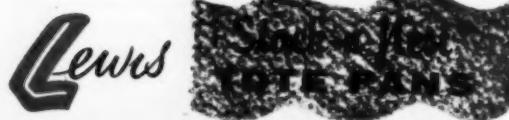
Closes Filled Boxes From Outside



The Clip-Top Packer P-LH (pneumatic with lever handle) closes filled cartons from the outside, with king-size staples. You can also use it to set up ordinary boxes, ready for packing. With it you can seal filled cases in a few seconds, at about $\frac{1}{3}$ cent each. This machine works in any position (vertical, horizontal, etc.) when suspended from a balance wheel. Optional plate handle is available, mounted on top casing, already drilled for the cable. There's no lubricator, filter, or regulator. The adjustable anvil staples A, B, or C corrugated; just twist the adjusting screw to change.

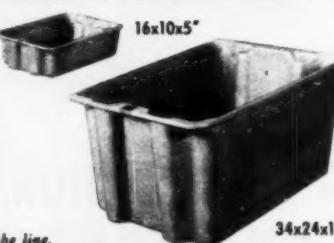
Container Stapling Corp.

Circle No. 154 on Reader Service Card



IN SIZES TO HANDLE EVERY PRODUCT

16 x 10 x 5
18 x 12 x 6
18 x 12 x 8
22 x 14 x 8
22 x 17 x 10*
27 x 16 x 11
34 x 24 x 19
39 x 19 x 14



*New addition to the line.

WITH ACCESSORIES FOR GREATEST VERSATILITY



G.B.
Lewis
COMPANY

701 Montgomery St.,
Watertown, Wisconsin

PAN COVERS

Molded of Fiberglass Reinforced Polyester in colors to match pans • Snug fit — keeps out dust and dirt • "Contour offset" for safe, high stacking of covered pans • Nest when not in use • Use as trays if desired • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

DOLLIES

Molded of Fiberglass Reinforced Polyester in colors to match pans • Four heavy-duty, easy-rolling swivel casters • "Contour offset" for safe, secure stacking of pans • Quick, easy multiple handling and movement — loaded or empty • Rugged construction for big pay loads • Popular sizes — fit the 22x14x8" and 27x16x11" Stack-n-Nest pans.

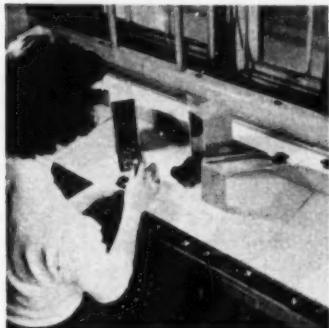
STACK-N-NEST PANS PATENTED
2,823,828 2,823,829

Circle No. 81 on Reader Service Card

Circle No. 47 on Reader Service Card

Transfer Conveyors

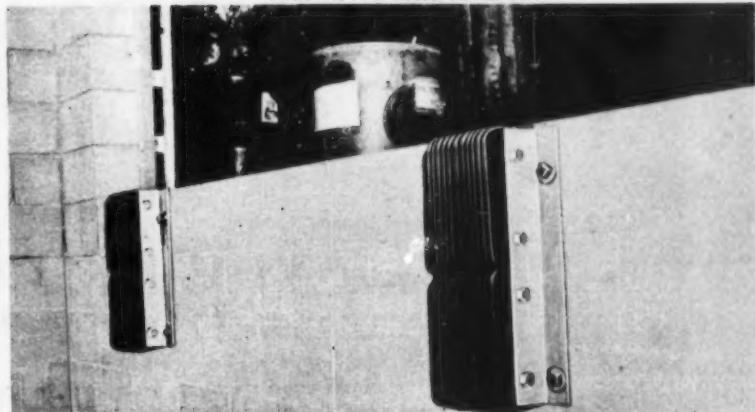
With Building Block conveyors you can keep parts moving from process point to process point. The conveyors come in widths from 2 to 12 inches, are easily expandable to any desired length by simply



Circle No. 155 on Reader Service Card

adding units. Motor drives, both constant and variable speed, provide speeds up to 200 fpm. Constant tension devices are available to eliminate the need for belt adjustment. The units are easily set up or dismantled.

Alden Systems Co.



Vertical Loading Dock Bumpers give maintenance-free dock protection

These new vertically mounted loading dock bumpers minimize "up and down" friction and strain when trucks are loading or unloading. Extra bumper depth prevents timbers being torn from docks as trucks rise during unloading.

Durable Dock Bumpers will assure you minimum maintenance on your loading docks. All bumpers are guaranteed for five years. Send for complete information.

DURABLE MAT COMPANY

75 N. Pleasant St., Norwalk, O. • 755 Kifer Rd., Santa Clara, Calif.



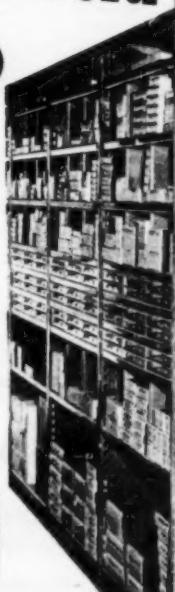
EQUIPTO Iron-Grip® Steel Shelving with the exclusive stud

Exclusive steel stud permits 60% faster shelf adjustment on 1½" centers without nuts, bolts or tools. The more you load the shelf the tighter it grips, yet shelf may be moved easily.

Equipto Iron-Grip Shelving is immediately available from stock in all sizes, either open or closed, with or without dividers, bin fronts, drawers or label holders. See your Equipto distributor or write for complete reference manual No. 485.

Stud eliminates clips, nuts, bolts and tools

A slope in the keyhole joins with the taper on the stud to form the tightest and strongest of grips. An exclusive Equipto feature.



Equipto

Steel Shelving-Slotted Angle-Bins-Drawer Units-Lockers-Carts-Benches.

Circle No. 83 on Reader Service Card

SPRING 1959



New! Lightweight Van Ramp! Fast unloading...ANYWHERE!

No dock needed when you use a low-cost Magcon Van Ramp. Carry it along . . . unload anywhere. Fabricated of light-weight metal . . . one man handles, carries and positions. A Magcon Van Ramp is the ideal solution for loading and unloading trucks on streets, factory yards . . . wherever dock facilities are limited or non-existent. Fast, safe, weatherproof—a low-cost investment with high returns. Full details and specifications are available for the asking. Simply circle the reader service card or write direct to:

magcoa

**MAGNESIUM COMPANY
OF AMERICA**

East Chicago 10, Ind.

Circle No. 82 on Reader Service Card

it's a MAGLINER!

America's
No. 1
Magnesium
Hand Truck

LIGHTER WORKLOADS! Magnesium-light Magliners give you *lighter workloads, more payload!* They speed pickups, wheeling and loading . . . save time and manpower on every handling job.

BUILT TO TAKE IT! Magnesium strong! Over ten years of service-proved, rugged performance in factories, warehouses, on docks, wholesale routes, etc. There's a Magliner designed to meet your specific requirements. Over 200 models.

Are you from Missouri? Try a Magliner without cost or obligation. Check the classified directory in phone book or write for name of nearest dealer, and Bulletin HT-101.

MAGLINE INC.
P.O. BOX 374
PINCONNING, MICHIGAN



Canadian Factory—Magline of Canada Ltd., Barrie, Ont.

NOW.

...The Easiest One-Man
Drum Moving Ever!

MORSE Model 55-0**DRUM CRADLE
TRUCK**

Low-cost and versatile, this cradle truck carries . . . rotates, manually . . . dispenses. Has side opening for drums with side drain cocks. Long wheelbase and retractable caster frame give exceptional stability under load. For 55 and 110 gal. drums. Circle this product for literature and prices.

**MORSE Model 150-R
DRUM HAND TRUCK**

One man can pick up a 1,000 lb. load . . . and balance it with one finger. Model 150-R features rubber tired wheels with ball bearings for quiet, easy rolling. Permits precise positioning of loaded drums. For drums 24" to 45" high and with diameters from 15". Sturdy steel construction. Circle this product for literature and prices.

Clip this ad to your letterhead

MORSE
MANUFACTURING CO., INC.
739 West Main Street, East Syracuse, N.Y.

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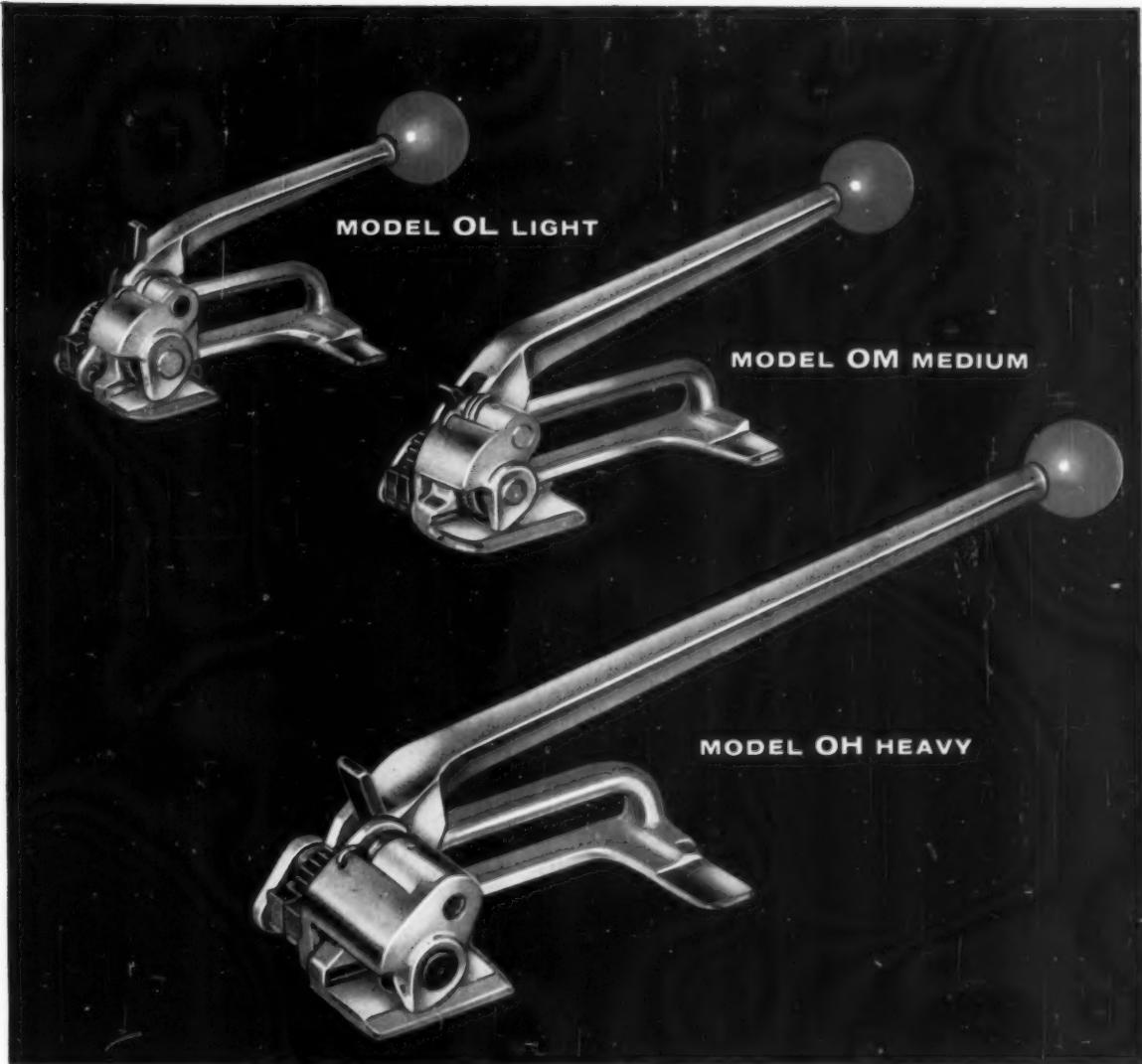
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*Additional Data and Catalog included in 1958-59 Flow Directory

ACKNOWLEDGEMENTS

■ MATERIAL HANDLING ILLUSTRATED is grateful to the following for information and photographs used in this issue:

Big Joe Manufacturing Co.; Gaylord Container Corp.; Gibraltar Corrugated Paper Inc.; Hinde & Dauch; Samuel M. Langston Co.; Lewis-Shepard Products, Inc.; M-H Standard Corp.; Manning, Maxwell & Moore, Inc.; Moto-Truc Co.; Rapids-Standard Co.; Inc.; Roura Iron Works, Inc.



New Heavy Duty Steel Strapping Tool completes STANLEY Line of "O" Tighteners

Stanley's new OH Tightener is the only heavy duty friction wheel steel strapping hand tool on the market today for use with cold rolled $\frac{3}{4}$ " and $1\frac{1}{4}$ " x .031 and .035 steel strap. This portable, lightweight, high leverage tightener efficiently packages products and containers of every type, size,

shape and weight . . . increasing packaging flexibility. Seals applied behind the tensioning wheel eliminate strap waste.

Strapplication Data available from Stanley Steel Strapping, Division of The Stanley Works, Dept. D, 1310 Corbin Ave., New Britain, Conn.

INSURE IT - SECURE IT WITH STANLEY STEEL STRAPPING

AMERICA BUILDS BETTER AND LIVES BETTER WITH STANLEY

STANLEY

This famous trademark distinguishes over 20,000 quality products of The Stanley Works—hand and electric tools
 • builders and industrial hardware • drapery hardware • door controls • aluminum windows • stampings • springs
 • coatings • strip steel • steel strapping—made in 24 plants in the United States, Canada, England and Germany.

Circle No. 87 on Reader Service Card

SPRING 1959



Music and fun in the children's ward
—on Junior Red Cross Visiting Day.

One "Youth Gang" we need more of...

Rock 'n rollers? That's right. *Rock 'n rollers in a children's hospital.*

The three "gang members" are Junior Red Cross members who've taken an afternoon of their time to go to the hospital and entertain some little crippled kids. Reassuring, isn't it?

They do things like this all the time. Regularly. Girls and boys.

20 million of our sons and daughters make up Junior Red Cross—the largest youth organization in the country. Junior members take part in every one of the Red Cross service programs that

young people can help to carry on.

When disasters hit, Junior Red Cross volunteers help in many ways—as messengers, typists, canteen workers, information clerks. Many Junior Red Cross members have served with real distinction in disaster emergencies.

Through the Gift Box Program in their schools, Juniors send relief supplies to children overseas. Like all Junior Red Cross activities, this program is financed entirely by the Juniors themselves.

Friendship between children all over the world is fostered by the

Junior Red Cross correspondence album and art programs.

Junior Red Cross is at work every day, helping to build a strong, decent, responsible young America.

These are kids we don't have to worry about. Let's be sure they know they can depend on us.

Join

On the job when you need it most

